

Test Report (SVHC)

No.: XMNEC24002014402

Date: Sep 30, 2024

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Client Name: XIAMEN SET ELECTRONICS CO.,LTD.

Client Address: NO.8067, 8001 West Xiangan RD, Torch High-Tech Industrial District,Xiangan,Xiamen

Sample Name: Ink

Client Ref. Information: See attachment

The above sample(s) and information were provided by the client.

SGS Job No.: XMP24-004426

Sample Receiving Date: Sep 25, 2024

Testing Period: Sep 25, 2024 ~ Sep 30, 2024

Test Requested: As requested by client, SVHC screening is performed according to:
(i) Two hundred and forty one (241) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 27, 2024 regarding Regulation (EC) No 1907/2006 concerning the REACH.
As requested by client, SVHC screening is performed according to:
(i) Six (6) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Aug 30, 2024 regarding Regulation (EC) No 1907/2006 concerning the REACH.
(ii) Two (2) potential Substances of Very High Concern (SVHC) in the Identification ongoing.
(iii) Six (6) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the results of 241 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
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Signed for and on behalf of
SGS CSTC Standards Technical Services Co., Ltd. Xiamen Branch

Rae chen

Rae Chen
Approved Signatory

scan to see the report



A57040D2



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According to the specified scope and evaluation screening, the results of 14 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
These lists are under evaluation by ECHA and may subject to change in the future.

2. REACH obligation:

2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



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- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Black ink	A2	XMN24-0020144-0001.C002

Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Result of SVHC in the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All SVHC in Candidate list	-	ND	-

Result of Potential SVHC

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All Potential SVHC	-	ND	-

Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit (Test data will be shown if it \geq RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.
** The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
- (4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) $\geq 0.1\%$ (w/w).
- (5) / = Potential SVHC

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	21	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	27	Tris(2-chloroethyl)phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050



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VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.6,9.0.2,13.0.5,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.050
XXI	199	2-methoxyethyl acetate	110-49-6	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(\pm)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetizole	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
/	242	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
/	243	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
/	244	Octamethyltrisiloxane	107-51-7	0.050
/	245	Perfluamine	338-83-0	0.050
/	246	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
/	247	tris(4-nonylphenyl, branched) phosphite	-	0.050
/	248	Triphenyl phosphate	115-86-6	0.050
/	249	Resorcinol	108-46-3	0.050
/	250	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
/	251	1,1,1,3,5,5,5-heptamethyltrisiloxane	1873-88-7	0.050
/	252	Decamethyltetrasiloxane	141-62-8	0.050



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/	253	Dodecamethylpentasiloxane	141-63-9	0.050
/	254	Hexamethyldisiloxane	107-46-0	0.050
/	255	Barium chromate*	10294-40-3	0.005



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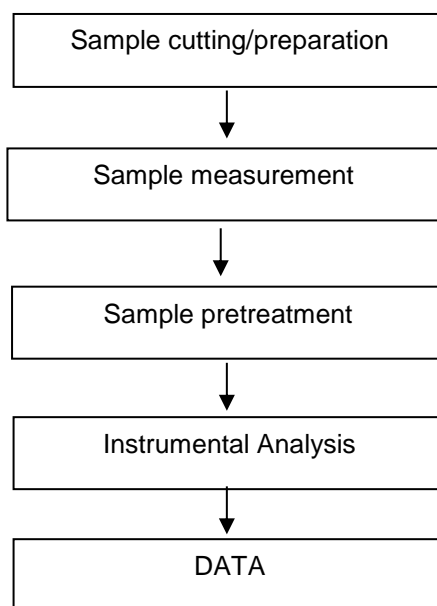
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ATTACHMENTS

Testing Flow Chart



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Attachment:

Application of this material in SET safe | SET fuse product specifications

I Thermal links

1、F SERIES

F0,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,F13,F14,F15,F16,F17,F18,F19,F20,F21,F22,F23,F24,F25,F26
, F27,F28,F29,F30,F31,F32,F33,F34,F35,F36,F37,F38,F43

2、K SERIES

K0,K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,
K26,K27,K28,K29,K30,K31,K32,K33,K34,K35,K36,K37,K38, K43 ,K0-M,K1-M,K2-M,K3-M,K4-M,K5-M,K6-
M,K7-M,K8-M,K9-M,K10-M,K11-M,K12-M,K13-M,K14-M,K15-M,K16-M,K17-M,K18-M,K19-M,K20-M,K21-
M,K22-M,K23-M,K24-M,K25-M,K26-M,K27-M,K28-M,K29-M,K30-M,K3-M1,K32-M,K33-M,K34-M,K34-
M,K35-M,K36- M,K37-M,K38-M,K43-M

3、X SERIES

X0,X1,X2,X3,X4,X5,X6,X7,X8,X9,X10,X11,X12,X13,X14,X15,X16,X17,X18,X19,X20,X21,X22,X23,X24,X25,
X 26,X27,X28,X29,X30,X31,X32,X33, X34,X35,X36,X37,X38,X43

4、Y SERIES

Y0,Y1,Y2,Y3,Y4,Y5,Y6,Y7,Y8,Y9,Y10,Y11,Y12,Y13,Y14,Y15,Y16,Y17,Y18,Y19,Y20,Y21,Y22,Y23,Y24,Y25,
Y 26,Y27,Y28,Y29,Y30,Y31,Y32,Y33, Y34,Y35,Y36,Y37,Y38,Y43

5、E SERIES

E0,E1,E2,E3,E4,E5,E6,E7,E8,E9,E10,E11,E12,E13,E14,E15,E16,E17,E18,E19,E20,E21,E22,E23,E24,E25,
E 26,E27,E28,E29,E30,E31,E32,E33,E34,E35,E36,E37,E38, E43;E0-M,E1-M,E2-M,E3-M,E4-M,E5-M,E6-
M,E7-M,E8-M,E9-M,E10-M,E11-M,E12-M,E13-M,E14-M,E15-M,E16-M,E17-M,E18-M,E19-M,E20-M,E21-
M,E22-M,E23-M,E24-M,E25-M,E26-M,E27-M,E28-M,E29-M,E30-M,E31-M,E32-M,E33-M, E34-M,E35-
M,E36- M,E37-M,E38-M, E43-M

6、D SERIES

D0,D1,D2,D3,D4,D5,D6,D7,D8,D9,D10,D11,D12,D13,D14,D15,D16,D17,D18,D19,D20,D21,D22,D23,D24,D
2 5,D26,D27,D28,D29.D30,D31,D32,D33,D34,D35,D36,D37,D38, D43 , D0-M,D1-M,D2-M,D3-M,D4-M,D5-
M,D6-M,D7-M,D8-M,D9-M,D10-M,D11-M,D12-M,D13-M,D14-M,D15-M,D16-M,D17-M,D18-M,D19-M,D20-
M,D21-M,D22-M,D23-M,D24-M,D25-M,D26-M,D27-M,D28-M,D29-M,D30-M,D31-M,D32-M,D33-M,D34-
M,D35- M,D36-M,D37-M,D38-M,D43-M

7、S SERIES



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S76,S102,S115,S125,S130,S135,S145,S150,S133,S136,S117,S127,S103,S139,S140,S169,S160,S187,S86, S85,S92, S97,S93,S90,S100,S120,S95,S65,S108, S68, S221, S205, S165,S200,S230,S250

8、SN SERIES

SN76,SN102,SN115,SN125,SN130,SN135,SN145,SN150,SN133,SN136,SN117,SN127,SN103,SN139,SN140,SN169,SN160,SN187,SN86,SN85,SN92,SN97,SN93,SN90,SN100,SN120,SN95,SN65,SN108, SN68, SN221, SN205, SN165,SN200,SN230,SN250

9、T SERIES

T76,T102,T115,T125,T130,T135,T145,T150,T133,T136,T117,T127,T103,T139,T140,T169,T160,T187,T86,T85,T92, T97,T93,T90,T100,T120,T95,T65,T108,T68, T221,T205, T165,T200,T230,T250

10、TN SERIES

TN76,TN102,TN115,TN125,TN130,TN135,TN145,TN150,TN133,TN136,TN117,TN127,TN103,TN139,TN140, TN169,TN160,TN187,TN86,TN85,TN92,TN97,TN93,TN90,TN100,TN120,TN95,TN65,TN108,TN68,TN221, T N205,TN165,TN200,TN230,TN250

11、P SERIES

P102,P115,P125,P130,P135,P145,P150,P133,P136,P117,P127,P103,P139,P140,P169,P160,P187,P85,P92, P97,P93, P90,P100,P120,P95,P108,P68, P221,P205, P165,P200,P230,P250

12、Q SERIES

Q102,Q115,Q125,Q130,Q135,Q145,Q150,Q133,Q136,Q117,Q127,Q103,Q139,Q140,Q169,Q160,Q187,Q85, Q92,Q97,Q93, Q90,Q100,Q120,Q95,Q108,Q68, Q221,Q205, Q165,Q200,Q230,Q250

13、QC SERIES

QC102,QC115,QC125,QC130,QC135,QC145,QC150,QC133,QC136,QC117,QC127,QC103,QC139,QC140, QC169,QC160,QC187,QC85,QC92,QC97,QC93,QC90,QC100,QC120,QC95,QC108,QC68,QC221,QC205, Q C165,QC200,QC230,QC250

14、V SERIES

V0,V1,V2,V3,V4,V5,V6,V7,V8,V9,V10,V11,V12,V13,V14,V15,V16,V17,V18,V19,V20,V21,V22,V23,V24,V25, V 26,V27,V28,V29,V30,V31,V32,V33,V37,V38,V43

15、H SERIES

H0,H1,H2,H3,H4,H5,H6,H7,H8,H9,H10,H11,H12,H13,H14,H15,H16,H17,H18,H19,H20,H21,H22,H23,H24,H 2 5,H26,H27,H28,H29,H30,H31,H32,H33,H37,H38,H43

16、B SERIES



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B0,B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11,B12,B13,B14,B15,B16,B17,B18,B19,B20,B21,B22,B23,B24,B25,
B 26,B27,B28,B29,B30,B31,B32,B33,B37,B38,B43

17、C SERIES

C0,C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C13,C14,C15,C16,C17,C18,C19,C20,C21,C22,C23,C24,C
2 5,C26,C27,C28,C29,C30,C31,C32,C33,C37,C38,C43

18、U SERIES

U0,U1,U2,U3,U4,U5,U6,U7,U8,U9,U10,U11,U12,U13,U14,U15,U16,U17,U18,U19,U20,U21,U22,U23,U24,U
2 5,U26,U27,U28,U29,U30,U31,U32,U33,U37,U38 U43

19、U-500 SERIES

U0-500,U1-500,U2-500,U3-500,U4-500,U5-500,U6-500,U7-500,U8-500,U9-500,U10-500,U11-500,U12-
500,U13-500,U14-500,U15-500,U16-500,U17-500,U18-500,U19-500,U20-500,U21-500,U22-500,U23-
500,U24-500,U25-500,U26-500,U27-500,U28-500,U29-500,U30-500,U31-500,U32-500,U33-500,U37-
500,U38-500, U43-500

20、R SERIES

R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,R12,R13,R14,R15,R16,R17,R18,R19,R20,R21,R22,R23,R24,R
2 5,R26,R27,R28;R29,R30,R31,R32,R33,R37,R38,R43

21、R-500 SERIES

R0-500,R1-500,R2-500,R3-500,R4-500,R5-500,R6-500,R7-500,R8-500,R9-500,R10-500,R11-500,R12-
500,R13-500,R14-500,R15-500,R16-500,R17-500,R18-500,R19-500,R20-500,R21-500,R22-500,R23-
500,R24-500,R25-500,R26-500,R27-500,R28-500,R29-500,L30-500,L31-500,L32-500,L33-500,L37-
500,L38-500, L43-500

22、L SERIES

L0,L1,L2,L3,L4,L5,L6,L7,L8,L9,L10,L11,L12,L13,L14,L15,L16,L17,L18,L19,L20,L21,L22,L23,L24,L25,L26,L2
7,L28,L29,L30,L31,L32 L33-500,L37,L38,L43

23、L0-500 SERIES

L0-500,L1-500,L2-500,L3-500,L4-500,L5-500,L6-500,L7-500,L8-500,L9-500,L10-500,L11-500,L12-500,L13-
500,L14-500,L15-500,L16-500,L17-500,L18-500,L19-500,L20-500,L21-500,L22-500,L23-500,L24-500,L25-
500,L26-500,L27-500,L28-500,L29-500,L30-500,L31-500,L32-500,L33-500,L37-500,L38-500,L43-500

24、M SERIES

M0,M1,M2,M3,M4,M5,M6,M7,M8,M9,M10,M11,M12,M13,M14,M15,M16,M17,M18,M19,M20,M21,M22,
M23,M24,M25,M26,M27,M28,M29,M30,M31,M32,M33,M37,M38;M76,M86,M102,M115,M125,M130,M135,
M145,M150,M133,M136,M117,M127,M103,M139,M140,M169,M160,M187,M85,M92,M97,M93,M90,M100,
M120,M95,M108,M205,M221,M200,M230,M250



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25、J SERIES

J0,J1,J2,J3,J4,J5,J6,J7,J8,J9,J10,J11,J12,J13,J14,J15,J16,J17,J18,J19,J20,J21,J22,J23,J24,J25,J26,J27,J28,J29,J30,J31,J32,J33,J37,J38,J43

26、VD SERIES

VD102,VD115,VD125,VD130,VD135,VD145,VD150,VD133,VD136,VD117,VD127,VD103,VD139,VD140,VD169,VD160,VD187,VD85,VD92,VD97,VD93,VD90,VD100,VD120,VD95,VD108,VD205,VD221,VD200,VD230,VD250

27、RA SERIES

RA76,RA102,RA115,RA125,RA130,RA135,RA145,RA150,RA133,RA136,RA117,RA127,RA103,RA139,RA140,RA160,RA187,RA86,RA221,RA205,RA165,RA200,RA230,RA250

28、RF SERIES

RF76,RF102,RF115,RF125,RF130,RF135,RF145,RF150,RF133,RF136,RF117,RF127,RF103,RF139,RF140,RF169,RF160,RF187,RF86,RF221,RF205,RF165,RF200,RF230,RF250

29、RH SERIES

RH76,RH102,RH115,RH125,RH130,RH135,RH145,RH150,RH133,RH136,RH117,RH127,RH103,RH139,RH140,RH169,RH160,RH187,RH86,RH221,RH205,RH165,RH200,RH230,RH250

30、RB SERIES

RB76,RB102,RB115,RB125,RB130,RB135,RB145,RB150,RB133,RB136,RB117,RB127,RB103,RB139,RB140,RB169,RB160,RB187,RB86,RB221,RB205,RB165,RB200,RB230,RB250

31、RC SERIES

RC76,RC102,RC115,RC125,RC130,RC135,RC145,RC150,RC133,RC136,RC117,RC127,RC103,RC139,RC140,RC169,RC160,RC187,RC86,RC221,RC205,RC165,RC200,RC230,RC250

32、10K SERIES

10K86,10K102,10K115,10K125,10K130,10K135,10K145,10K150,10K133,10K136,10K117,10K127,10K103,10K139,10K140,10K169,10K160,10K187,10K221,10K205,10K165,10K200,10K230,10K250

33、15K SERIES

15K86,15K102,15K115,15K125,15K130,15K135,15K145,15K150,15K133,15K136,15K117,15K127,15K103,15K139,15K140,15K169,15K160,15K187,15K221,15K205,15K165,15K200,15K230,15K250

34、20K SERIES

20K86,20K102,20K115,20K125,20K130,20K135,20K145,20K150,20K133,20K136,20K117,20K127,20K103,20K139,20K140,20K169,20K160,20K187,20K221,20K205,20K165,20K200,20K230,20K250

35、25K SERIES

25K86,25K102,25K115,25K125,25K130,25K135,25K145,25K150,25K133,25K136,25K117,25K127,25K103,



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36、40K SERIES

40K86,40K102,40K115,40K125,40K130,40K135,40K145,40K150,40K133,40K136,40K117,40K127,40K103,
40K139,40K140,40K169,40K160,40K187,40K221,40K205, 40K165,40K200,40K230,40K250

37、60K SERIES

60K86,60K102,60K115,60K125,60K130,60K135,60K145,60K150,60K133,60K136,60K117,60K127,60K103,
60K139,60K140,60K169,60K160,60K187,60K200,60K230,60K250

38、100K SERIES

100K86,100K102,100K115,100K125,100K130,100K135,100K145,100K150,100K133,100K136,100K117,10
0 K127, 100K103,100K139,100K140,100K169,100K160,100K187,100K200,100K230,100K250

39、G SERIES

G102,G115,G125,G130,G135,G145,G150,G133,G136,G117,G127,G103,G139,G140,G169,G160,G187,G8
5, G92,G97, G93,G90,G100,G120,G95,G108,G68, G221,G205, G165,G200,G230,G250

40、N SERIES

N76,N102,N115,N125,N130,N135,N145,N150,N133,N136,N117,N127,N103,N139,N140,N169,N160,N187,
N

86,N85,N92,N97,N93,N90,N100,N120,N95,N65,N55,N108,N68,N221,N205,N165,N105,N240,N147,N200,N
2

30,N250

41、SD SERIES

SD76,SD102,SD115,SD125,SD130,SD135,SD145,SD150,SD133,SD136,SD117,SD127,SD103,SD139,SD1
40,SD169,SD160,SD187,SD86,SD85,SD92,SD97,SD93,SD90,SD100,SD120,SD95,SD65,SD108,SD68,SD
2

21,SD205,SD165,SD200,SD230,SD250

42、TD SERIES

TD76,TD102,TD115,TD125,TD130,TD135,TD145,TD150,TD133,TD136,TD117,TD127,TD103,TD139,TD14
0

,TD169,TD160,TD187,TD86,TD85,TD92,TD97,TD93,TD90,TD100,TD120,TD95,TD65,TD108,TD68,TD221,
T D205,TD165,TD200,TD230,TD250

43、PD SERIES

PD102,PD115,PD125,PD130,PD135,PD145,PD150,PD133,PD136,PD117,PD127,PD103,PD139,PD140,PD
169,PD160,PD187,PD85,PD92,PD97,PD93,PD90,PD100,PD120,PD95,PD108,PD68,PD221,PD205,PD165,
PD200,PD230,PD250



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44、 QD SERIES

QD102,QD115,QD125,QD130,QD135,QD145,QD150,QD133,QD136,QD117,QD127,QD103,QD139,QD140
,
QD169,QD160,QD187,QD85,QD92,QD97,QD93,QD90,QD100,QD120,QD95,QD108,QD68,QD221,QD205,
QD165,QD200,QD230,QD250

45、 TY SERIES

TY76,TY86,TY102,TY115,TY125,TY130,TY135,TY145,TY150,TY133,TY136,TY117,TY127,TY103,TY139,T
Y
140,TY169,TY160,TY187,TY85,TY92,TY97,TY93,TY90,TY100,TY120,TY95,TY108,TY205,TY221,TY200,T
Y
230,TY250

46、 SY SERIES

SY76,SY86,SY102,SY115,SY125,SY130,SY135,SY145,SY150,SY133,SY136,SY117,SY127,SY103,SY139,
SY140,SY169,SY160,SY187,SY85,SY92,SY97,SY93,SY90,SY100,SY120,SY95,SY108,SY205,SY221,SY2
00,SY230,SY250

47、 TK SERIES

TK76,TK86,TK102,TK115,TK125,TK130,TK135,TK145,TK150,TK133,TK136,TK117,TK127,TK103,TK139,T
K
140,TK169,TK160,TK187,TK85,TK92,TK97,TK93,TK90,TK100,TK120,TK95,TK108,TK205,TK221,TK200,T
K
230,TK250

48、 TV SERIES

TV76,TV86,TV102,TV115,TV125,TV130,TV135,TV145,TV150,TV133,TV136,TV117,TV127,TV103,TV139,T
V
140,TV169,TV160,TV187,TV85,TV92,TV97,TV93,TV90,TV100,TV120,TV95,TV108,TV205,TV221,TV200,T
V
230,TV250

49、 ND SERIES

ND76,ND86,ND102,ND115,ND125,ND130,ND135,ND145,ND150,ND133,ND136,ND117,ND127,ND103,ND
1
39,ND140,ND169,ND160,ND187,ND85,ND92,ND97,ND93,ND90,ND100,ND120,ND95,ND108,ND205,ND22
1,ND200,ND230,ND250

50、 TB SERIES



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TB76,TB86,TB102,TB115,TB125,TB130,TB135,TB145,TB150,TB133,TB136,TB117,TB127,TB103,TB139,T
B

140,TB169,TB160,TB187,TB85,TB92,TB97,TB93,TB90,TB100,TB120,TB95,TB108,TB205,TB221,TB200,T
B

230,TB250

51、CR SERIES

CR76,CR86,CR102,CR115,CR125,CR130,CR135,CR145,CR150,CR133,CR136,CR117,CR127,CR103,CR
1

39,CR140,CR169,CR160,CR187,CR85,CR92,CR97,CR93,CR90,CR100,CR120,CR95,CR108,CR205,CR22
1,CR200,CR230,CR250

52、CF SERIES

CF76,CF86,CF102,CF115,CF125,CF130,CF135,CF145,CF150,CF133,CF136,CF117,CF127,CF103,CF139,
CF140,CF169,CF160,CF187,CF85,CF92,CF97,CF93,CF90,CF100,CF120,CF95,CF108,CF205,CF221,CF2
00,CF230,CF250

53、TL SERIES

TL86,TL102,TL115,TL125,TL130,TL135,TL145,TL150,TL133,TL136,TL117,TL127,TL103,TL139,TL140,
TL169,TL160,TL187 TL205,TL221,TL200,TL230,TL250

54、TS SERIES

TS86,TS102,TS115,TS125,TS130,TS135,TS145,TS150,TS133,TS136,TS117,TS127,TS103,TS139,TS140,
TS169,TS160,TS187,TS205,TS221,TS200,TS230,TS250

55、TP SERIES

TP76,TP86,TP102,TP115,TP125,TP130,TP135,TP145,TP150,TP133,TP136,TP117,TP127,TP103,TP139,T
P

140,TP169,TP160,TP187,TP85,TP92,TP97,TP93,TP90,TP100,TP120,TP95,TP108,TP205,TP221,TP200,T
P

230,TP250

56、TMC SERIES

TMC76,TMC86,TMC102,TMC115,TMC125,TMC130,TMC135,TMC145,TMC150,TMC133,TMC136,TMC117
,

TMC127,TMC103,TMC139,TMC140,TMC169,TMC160,TMC187,TMC85,TMC92,TMC97,TMC93,TMC90,TM
C100,TMC120,TMC95,TMC108,TMC205,TMC221,TMC200,TMC230,TMC250

57、TC SERIES



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TC76,TC86,TC102,TC115,TC125,TC130,TC135,TC145,TC150,TC133,TC136,TC117,TC127,TC103,TC139,TC140,TC169,TC160,TC187,TC85,TC92,TC97,TC93,TC90,TC100,TC120,TC95,TC108,TC205,TC221,TC200,TC230,TC250

58、HK SERIES

HK76,HK86,HK102,HK115,HK125,HK130,HK135,HK145,HK150,HK133,HK136,HK117,HK127,HK103,HK139,HK140,HK169,HK160,HK187,HK85,HK92,HK97,HK93,HK90,HK100,HK120,HK95,HK108,HK205,HK221, HK200,HK230,HK250

59、GH SERIES

GH76,GH86,GH102,GH115,GH125,GH130,GH135,GH145,GH150,GH133,GH136,GH117,GH127,GH103,GH139,GH140,GH169,GH160,GH187,GH85,GH92,GH97,GH93,GH90,GH100,GH120,GH95,GH108,GH205, GH221,GH200,GH230,GH250

60、TU SERIES

TU76,TU102,TU115,TU125,TU130,TU135,TU145,TU150,TU133,TU136,TU117,TU127,TU103,TU139,TU140,TU169,TU160,TU187,TU86,TU85,TU92,TU97,TU93,TU90,TU100,TU120,TU95,TU65,TU108,TU68,TU221, TU205,TU165,TU200,TU230,TU250;U205,TU165,TU200,TU230

61、TYS SERIES

TYS76,TYS86,TYS102,TYS115,TYS125,TYS130,TYS135,TYS145,TYS150,TYS133,TYS136,TYS117,TYS127,TYS103,TYS139,TYS140,TYS169,TYS160,TYS187,TYS85,TYS92,TYS97,TYS93,TYS90,TYS100,TYS102,TYS95,TYS108,TYS205,TYS221,TYS200,TYS230,TYS250

62、HT SERIES

HT76,HT86,HT102,HT115,HT125,HT130,HT135,HT145,HT150,HT133,HT136,HT117,HT127,HT103,HT139,HT140,HT169,HT160,HT187,HT85,HT92,HT97,HT93,HT90,HT100,HT120,HT95,HT108,HT205,HT221,HT200,HT230,HT250

63、HS SERIES

HS76,HS86,HS102,HS115,HS125,HS130,HS135,HS145,HS150,HS133,HS136,HS117,HS127,HS103,HS139,HS140,HS169,HS160,HS187,HS85,HS92,HS97,HS93,HS90,HS100,HS120,HS95,HS108,HS205,HS221, HS200,HS230,HS250

64、HP SERIES

HP76,HP86,HP102,HP115,HP125,HP130,HP135,HP145,HP150,HP133,HP136,HP117,HP127,HP103,HP139,HP140,HP169,HP160,HP187,HP85,HP92,HP97,HP93,HP90,HP100,HP120,HP95,HP108,HP205,HP221, HP200,HP230,HP250



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65、HN SERIES

HN76,HN86,HN102,HN115,HN125,HN130,HN135,HN145,HN150,HN133,HN136,HN117,HN127,HN103,HN1
39,HN140,HN169,HN160,HN187,HN85,HN92,HN97,HN93,HN90,HN100,HN120,HN95,HN108,HN205,HN22
1,HN200,HN230,HN250

66、TSH SERIES

TSH76,TSH86,TSH102,TSH115,TSH125,TSH130,TSH135,TSH145,TSH150,TSH133,TSH136,TSH117,TS
H
127,TSH103,TSH139,TSH140,TSH169,TSH160,TSH187,TSH85,TSH92,TSH97,TSH93,TSH90,TSH100,TS
H
120,TSH95,TSH108,TSH205,TSH221,TSH200,TSH230,TSH250

67、TBH SERIES

TBH76,TBH86,TBH102,TBH115,TBH125,TBH130,TBH135,TBH145,TBH150,TBH133,TBH136,TBH117,TB
H
127,TBH103,TBH139,TBH140,TBH169,TBH160,TBH187,TBH85,TBH92,TBH97,TBH93,TBH90,TBH100,TB
H
120,TBH95,TBH108,TBH205,TBH221,TBH200,TBH230,TBH250

68、TO SERIES

TO76,TO102,TO115,TO125,TO130,TO135,TO145,TO150,TO133,TO136,TO117,TO127,TO103,TO139,TO1
40,TO169,TO160,TO187,TO86,TO85,TO92,TO97,TO93,TO90,TO100,TO120,TO95,TO65,TO108,TO68,
TO221,TO205,TO165,TO200,TO230,TO250

69、SKL SERIES

SKL76,SKL86,SKL102,SKL115,SKL125,SKL130,SKL135,SKL145,SKL150,SKL133,SKL136,SKL117,SKL12
7
,SKL103,SKL139,SKL140,SKL169,SKL160,SKL187,SKL85,SKL92,SKL97,SKL93,SKL90,SKL100,SKL120,S
KL95,SKL108,SKL205,SKL221, SKL200,SKL230,SKL250

70、TYS SERIES

TYS76,TYS86,TYS102,TYS115,TYS125,TYS130,TYS135,TYS145,TYS150,TYS133,TYS136,TYS117,TYS1
27,TYS103,TYS139,TYS140,TYS169,TYS160,TYS187,TYS85,TYS92,TYS97,TYS93,TYS90,TYS100,TYS1
2
0,TYS95,TYS108,TYS205,TYS221,TYS200,TYS230,TYS250

71、KG series



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KG0,KG1,KG2,KG3,KG4,KG5,KG6,KG7,KG8,KG9,KG10,KG11,KG12,KG13,KG14,KG15,KG16,KG17,KG18

,
KG19,KG20,KG21,KG22,KG23,KG24,KG25,KG26,KG27,KG28,KG29,KG30,KG31,KG32,KG33,KG37,KG38,
KG43

72、XG series

XG0,XG1,XG2,XG3,XG4,XG5,XG6,XG7,XG8,XG9,XG10,XG11,XG12,XG13,XG14,XG15,XG16,XG17,XG18

,
XG19,XG20,XG21,XG22,XG23,XG24,XG25,XG26,XG27,XG28,XG29,XG30,XG31,XG32,XG33,XG37,XG38,
XG43

73、EG series

EG0,EG1,EG2,EG3,EG4,EG5,EG6,EG7,EG8,EG9,EG10,EG11,EG12,EG13,EG14,EG15,EG16,EG17,EG18

, EG19,EG20,EG21,EG22,EG23, EG24,EG25,EG26,EG27,EG28,EG29,EG30,EG31,EG32,EG33,
EG37,EG38, EG43

74、DG series

DG0,DG1,DG2,DG3,DG4,DG5,DG6,DG7,DG8,DG9,DG10,DG11,DG12,DG13,DG14,DG15,DG16,DG17,DG

18,DG19,DG20,DG21,DG22,DG23,DG24,DG25,DG26,DG27,DG28,DG29,DG30,DG31,DG32,DG33,
DG37,DG38,DG43;

75、KM series

KM0,KM1,KM2,KM3,KM4,KM5,KM6,KM7,KM8,KM9,KM10,KM11,KM12,KM13,KM14,KM15,KM16,KM17,KM

18,KM19,KM20,KM21,KM22,KM23,KM24,KM25,KM26,KM27,KM28,KM29,KM30,KM31,KM32,KM33,
KM37,KM38,KM43;

76、XM series

XM0,XM1,XM2,XM3,XM4,XM5,XM6,XM7,XM8,XM9,XM10,XM11,XM12,XM13,XM14,XM15,XM16,XM17,XM

1

8,XM19,XM20,XM21,XM22,XM23,XM24,XM25,XM26,XM27,XM28,XM29,XM30,XM31,XM32,XM33,XM37,X

M

38, XM43;

77、SM series

SM0,SM1,SM2,SM3,SM4,SM5,SM6,SM7,SM8,SM9,SM10,SM11,SM12,SM13,SM14,SM15,SM16,SM17,SM

1

8,SM19,SM20,SM21,SM22,SM23,SM24,SM25,SM26,SM27,SM28,SM29,SM30,SM31,SM32,SM33,SM37,S

M

38, SM43



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78、TM series

TM0,TM1,TM2,TM3,TM4,TM5,TM6,TM7,TM8,TM9,TM10,TM11,TM12,TM13,TM14,TM15,TM16,TM17,TM18
,
TM19,TM20,TM21,TM22,TM23,TM24,TM25,TM26,TM27,TM28,TM29,TM30,TM31,TM32,TM33,TM37,TM38,
TM43;

79、TGXXB SERIES

TG76B,TG102B,TG115B,TG125B,TG130B,TG135B,TG145B,TG150B,TG133B,TG136B,TG117B,TG127B,T
G103B,TG139B,TG140B,TG169B,TG160B,TG187B,TG86B,TG85B,TG92B,TG97B,TG93B,TG90B,TG100B,
TG120B,TG95B,TG65B,TG108B,TG68B, TG221B,TG205B, TG165B,TG200B,TG230B,TG250B

80、GA SERIES

GA102,GA115,GA125,GA130,GA135,GA145,GA150,GA133,GA136,GA117,GA127,GA103,GA139,GA140,
G
A169,GA160,GA187,GA85,GA92,GA97,GA93,GA90,GA100,GA120,GA95,GA108,GA68,GA221,GA205,GA
165,GA200,GA230,GA250

81、TIH SERIES

TIH76,TIH86, ,TIH115,TIH125,TIH130,TIH135,TIH145,TIH150,TIH133,TIH136,TIH117,TIH127,TIH103,TIH1
3
9,TIH140,TIH169,TIH160,TIH187,TIH85,TIH92,TIH97,TIH93,TIH90,TIH100,TIH120,TIH95,TIH108,TIH205,TI
H221, TIH200,TIH230,TIH250;

82、TGXXC SERIES

TG76C,TG102C,TG115C,TG125C,TG130C,TG135C,TG145C,TG150C,TG133C,TG136C,TG117C,TG127C,
TG103C,TG139C,TG140C,TG169C,TG160C,TG187C,TG86C,TG85C,TG92C,TG97C,TG93C,TG90C,TG10
0C,TG120C,TG95C,TG65C,TG108C,TG68C, TG221C,TG205C, TG165C,TG200C,TG230C,TG250C;

83、SF SERIES

SF102,SF115,SF125,SF130,SF135,SF145,SF150,SF133,SF136,SF117,SF127,SF103,SF139,SF140,SF169
, SF160,SF187,SF85,SF92,SF97,SF93,SF90,SF100,SF120,SF95,SF108,SF68,SF221,SF205,
SF165,SF200,SF230,SF250

84、YM SERIES

YM102,YM115,YM125,YM130,YM135,YM145,YM150,YM133,YM136,YM117,YM127,YM103,YM139,YM140
,
YM169,YM160,YM187,YM85,YM92,YM97,YM93,YM90,YM100,YM120,YM95,YM108,YM68,YM221,YM205,
YM165,YM200,YM230,YM250

85、UA SERIES



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UA76,UA86,UA102,UA115,UA125,UA130,UA135,UA145,UA150,UA133,UA136,UA117,UA127,UA103,UA13
9,UA140,UA169,UA160,UA187,UA85,UA92,UA97,UA93,UA90,UA100,UA120,UA95,UA108,UA68,UA221,U
A

205, UA165,UA200,UA230,UA250

86、SL SERIES

SL76,SL86,SL102,SL115,SL125,SL130,SL135,SL145,SL150,SL133,SL136,SL117,SL127,SL103,SL139,SL
140,SL169,SL160,SL187,SL85,SL92,SL97,SL93,SL90,SL100,SL120,SL95,SL108,SL68,SL221,SL205,
SL165,SL200,SL230,SL250

87、SLA SERIES

SLA76,SLA86,SLA102,SLA115,SLA125,SLA130,SLA135,SLA145,SLA150,SLA133,SLA136,SLA117,SLA12
7
,SLA103,SLA139,SLA140,SLA169,SLA160,SLA187,SLA85,SLA92,SLA97,SLA93,SLA90,SLA100,SLA120,S
L A95,SLA108,SLA68,SLA221,SLA205, SLA165,SLA200,SLA230,SLA250

88、SLB SERIES

SLB76,SLB86,SLB102,SLB115,SLB125,SLB130,SLB135,SLB145,SLB150,SLB133,SLB136,SLB117,SLB12
7
,SLB103,SLB139,SLB140,SLB169,SLB160,SLB187,SLB85,SLB92,SLB97,SLB93,SLB90,SLB100,SLB120,S
L B95,SLB108,SLB68,SLB221,SLB205, SLB165,SLB200,SLB230,SLB250

89、SLC SERIES

SLC76,SLC86,SLC102,SLC115,SLC125,SLC130,SLC135,SLC145,SLC150,SLC133,SLC136,SLC117,SLC1
27,SLC103,SLC139,SLC140,SLC169,SLC160,SLC187,SLC85,SLC92,SLC97,SLC93,SLC90,SLC100,SLC1
2
0,SLC95,SLC108,SLC68,SLC221,SLC205, SLC165,SLC200,SLC230,SLC250

90、SLD SERIES

SLD76,SLD86,SLD102,SLD115,SLD125,SLD130,SLD135,SLD145,SLD150,SLD133,SLD136,SLD117,SLD1
27,SLD103,SLD139,SLD140,SLD169,SLD160,SLD187,SLD85,SLD92,SLD97,SLD93,SLD90,SLD100,SLD1
2
0,SLD95,SLD108,SLD68,SLD221,SLD205, SLD165,SLD200,SLD230 ,SLD250

91、SLE SERIES

SLE76,SLE86,SLE102,SLE115,SLE125,SLE130,SLE135,SLE145,SLE150,SLE133,SLE136,SLE117,SLE12
7
,SLE103,SLE139,SLE140,SLE169,SLE160,SLE187,SLE85,SLE92,SLE97,SLE93,SLE90,SLE100,SLE120,S
L E95,SLE108,SLE68,SLE221,SLE205, SLE165,SLE200,SLE230 ,SLE250



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92、TGH SERIES

TGH76,TGH86,TGH102,TGH115,TGH125,TGH130,TGH135,TGH145,TGH150,TGH133,TGH136,TGH117,TGH127,TGH103,TGH139,TGH140,TGH169,TGH160,TGH187,TGH85,TGH92,TGH97,TGH93,TGH90,TGH100,TGH120,TGH95,TGH108,TGH68,TGH221,TGH205,TGH165,TGH200,TGH230,TGH250

93、SF SERIES

SF0,SF1,SF2,SF3,SF4,SF5,SF6,SF7,SF8,SF9,SF10,SF11,SF12,SF13,SF14,SF15,SF16,SF17,SF18,SF19,SF20,SF21,SF22,SF23,SF24,SF25,SF26,SF27,SF28,SF29,SF30,SF31,SF32,SF33,SF34,SF35,SF36,SF37,SF38,SF43

94、NB SERIES

NB76,NB102,NB115,NB125,NB130,NB135,NB145,NB150,NB133,NB136,NB117,NB127,NB103,NB139,NB140,NB169,NB160,NB187,NB86,NB85,NB92,NB97,NB93,NB90,NB100,NB120,NB95,NB65,NB55,NB108,NB68,NB221,NB205,NB165,NB105,NB240,NB147,NB200,NB230,NB250

95、SE SERIES

SE76,SE86,SE102,SE115,SE125,SE130,SE135,SE145,SE150,SE133,SE136,SE117,SE127,SE103,SE139,SE140,SE169,SE160,SE187,SE85,SE92,SE97,SE93,SE90,SE100,SE120,SE95,SE108,SE205,SE221,SE200,SE230,SE250;

96、SK SERIES

SK76,SK86,SK102,SK115,SK125,SK130,SK135,SK145,SK150,SK133,SK136,SK117,SK127,SK103,SK139,SK140,SK169,SK160,SK187,SK85,SK92,SK97,SK93,SK90,SK100,SK120,SK95,SK108,SK205,SK221,SK200,SK230,SK250

97、HC SERIES

HC0,HC1,HC2,HC3,HC4,HC5,HC6,HC7,HC8,HC9,HC10,HC11,HC12,HC13,HC14,HC15,HC16,HC17,HC18,HC19,HC20,HC21,HC22,HC23,HC24,HC25,HC26,HC27,HC28,HC29,HC30,HC31,HC32,HC33,HC37,HC38,HC43

98、HU SERIES

HU0,HU1,HU2,HU3,HU4,HU5,HU6,HU7,HU8,HU9,HU10,HU11,HU12,HU13,HU14,HU15,HU16,HU17,HU18,HU19,HU20,HU21,HU22,HU23,HU24,HU25,HU26,HU27,HU28,HU29,HU30,HU31,HU32,HU33,HU37,HU38,HU43

99、HR SERIES



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HR0,HR1,HR2,HR3,HR4,HR5,HR6,HR7,HR8,HR9,HR10,HR11,HR12,HR13,HR14,HR15,HR16,HR17,HR18

HR19,HR20,HR21,HR22,HR23,HR24,HR25,HR26,HR27,HR28,HR29,HR30,HR31,HR32,HR33,HR37,HR38,HR43

100、HL SERIES

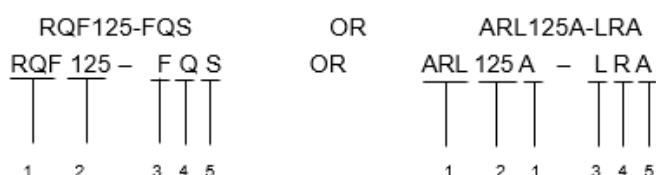
HL0,HL1,HL2,HL3,HL4,HL5,HL6,HL7,HL8,HL9,HL10,HL11,HL12,HL13,HL14,HL15,HL16,HL17,HL18,HL19,HL20,HL21,HL22,HL23,HL24,HL25,HL26,HL27,HL28,HL29,HL30,HL31,HL32,HL33,HL37,HL38,HL43

101、HW SERIES

HW0,HW1,HW2,HW3,HW4,HW5,HW6,HW7,HW8,HW9,HW10,HW11,HW12,HW13,HW14,HW15,HW16,HW17,HW18,HW19,HW20,HW21,HW22,HW23,HW24,HW25,HW26,HW27,HW28,HW29,HW30,HW31,HW32,HW33,HW37,HW38,HW43

II. ITCO

A. for example:



1. RQF&ARLxxxA means product series

TGH	RVH	ARLxxxA	RPK	RQF	RSKxxxA	ASLxxxA	RRLxxxA
RSLxxxA							

2. 125 means rated temperature

86	102	115	125	130	136	145	150	187
----	-----	-----	-----	-----	-----	-----	-----	-----

3. F means product rated Current

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	5	8	10	12.5	15/16		20	25	30/31.5	40
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
50		60/63/65	80	100	125	160	200	250	300/315	400	500	630

4. Q means product rated Voltage

A	B	C	D	E	F	G	H	I	J	K	L	M
---	---	---	---	---	---	---	---	---	---	---	---	---



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12		36		60	72		100		125	150	200	250
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
300		380/400	450	500	600	690/700	750	850	1000			

5. S means Inbuilt Fuse:

Minimum Breaking Current or Z means Without Inbuilt Fuse

A	B	C	D	E	F	G	H	I	J	K	L	M
0	0.1	0.2	0.3	0.4	0.5	0.6	0.7		0.8	0.9	1	1.2
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1.5		1.8	2	2.5	3	3.5	4	4.5				Without Inbuilt Fuse

B. for example:

TG125
TG 125
1 2

OR
OR

TG125C
TG 125 C
1 2 1

1. TG means product name

TU	TG	TGxxxB	TGxxxC	TGH	TGk
SL	SLA	SLB	SLC	SLD	SLE
TGF	TB	TS	TVB	UA	TS
UA					

2. 2 125 means rated temperature

76	86	102	115	125	130
136	145	150	187		

C. for example:

TKR 145 - R7 N - R J Z
1 2 3 4 5 6 7

1. TKRxxx-R means product series

TKRxxx-R	TEUxxx-R				
----------	----------	--	--	--	--

2. 145 means rated temperature



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86	102	115	125	130	136	145	150	187
----	-----	-----	-----	-----	-----	-----	-----	-----

3. R7 means rated voltage of FH(VDC)

R1	R2	R3	R4	R5	R6	R7
12				48		84

4. N means without remote signal

5. R means product rated Current

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	5	8	10	12.5	15/16		20	25	30/31.5	40
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
50		60/63/65	80	100	125	160	200	250	300/315	400	500	630

6. J means product rated Voltage

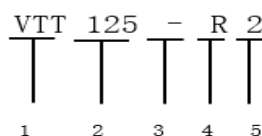
A	B	C	D	E	F	G	H	I	J	K	L	M
12		36		60	72		100		125	150	200	250
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
300		380/400	450	500	600	690/700	750	850	1000			

7. Z means Inbuilt Fuse:

Minimum Breaking Current or Z means Without Inbuilt Fuse

A	B	C	D	E	F	G	H	I	J	K	L	M
0	0.1	0.2	0.3	0.4	0.5	0.6	0.7		0.8	0.9	1	1.2
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1.5		1.8	2	2.5	3	3.5	4	4.5				Without Inbuilt Fuse

D. for example:



1. VTT means product name

TS-R	TW-R	TM-R	TL-R	TR-R	PT-R
------	------	------	------	------	------



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JT-R	BT-R	YT-R	JD-R	OT-R	OS-R
TSH-R	TBH-R	TFGDT	TB-R	TSE-R	TSD-R
TSC-R	VTT-R	TCP-R	FCM-R	FCN-R	FCL-R
PD-R	JS-R				

2. 125 means rated temperature;

86	102	115	125	130	136
145	150	187			

3. — means hyphen;

4. R means resistance;

5. 2 means the sequence of resistance.

III Thermal link & Fusing Resistor

1. TRXF1S series (0.1 Ω~600 Ω)

TRXF1S-□□□LA, TRXF1S-□□□LB, TRXF1S-□□□LC, TRXF1S-□□□SB, TRXF1S-□□□FB;

2. TRXF1 series (0.1 Ω~800 Ω)

TRXF1-□□□LA, TRXF1-□□□LB, TRXF1-□□□LC, TRXF1-□□□SB, TRXF1-□□□FB, TRXF1-□□□LM, TRXF1-□□□LT, TRXF1-□□□TD, TRXF1-□□□BD;

3. TRXF2 series (0.1 Ω~1000 Ω)

TRXF2-□□□LA, TRXF2-□□□LB, TRXF2-□□□LC, TRXF2-□□□SB, TRXF2-□□□FB, TRXF2-□□□LM, TRXF2-□□□LT, TRXF2-□□□TD, TRXF2-□□□BD;

IV Thermal Fuse & MOV

1. TFMOV/TMOV8Sxxx SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

2. TFMOV/TMOV10Sxxx(B/G/M/H/C) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

3. TFMOV/TMOV15Sxxx(B/G/M/H/L) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

4. TFMOV15S2Pxxx(B/G/M/H/L) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

5. M14Dxxx T125/T136(-2/-3/-2-C/-3-C/-2-O/-3-O) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

6. TFMOV/TMOV14Dxxx SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

7. M20Sxxx T125/T136(-2/-3/-2-C/-3-C/-2-O/-3-O) SERIES



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180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

8. TFMOV/TMOV20Sxxx (-IT) / (B/G/M/H/L) / (B/G/M/H/L-IT) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

9. M20Dxxx T125/T136(-2/-3/-2-C/-3-C/-2-O/-3-O) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

10. TFMOV/TMOV20Dxxx SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

11. M25Sxxx T125/T136(-2/-3/-2-C/-3-C/-2-O/-3-O) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

12. TFMOV/TMOV25Sxxx (-IT) / (B/G/M/H/L) / (B/G/M/H/L-IT) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

13. M25Dxxx T125/T136(-2/-3/-2-C/-3-C/-2-O/-3-O) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

14. TFMOV/TMOV25Dxxx (-IT) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

15. M34SxxxT125/T136(-2/-3/-2-C/-3-C/-2-O/-3-O) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

16. TFMOV/TMOV34Sxxx (-IT) / (B/G/M/H/L) / (B/G/M/H/L-IT) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112, 122

17. TFMOV/TMOV21R2Pxxx (-IT) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102

18. TFMOV/TMOV21R2Pxxx-P (-IT) SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102

19. TFMOV/TMOV21R3Pxxx SERIES

180, 220, 270, 330, 390, 470, 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102

20. SFV15SxxxK-T102/T115/S102/S115/T136/S136 SERIES

201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911



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21. SFV14DxxxK-T102/T115/S102/S115/T136/S136 SERIES

201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911

22. SFV20DxxxK-T102/T115/S102/S115/T136/S136 SERIES

201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911

23. TFMOV10Kxxx(-IT) SERIES

150, 300, 350, 460, 550, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112, 122

24. TFMOV10Kxxx(-PV) / (-IT-PV)

300, 500, 600, 800, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112, 122

25. TFMOV15Kxxx(-IT) SERIES

150, 300, 350, 460, 550, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112, 122

26. TFMOV15Kxxx(-PV) / (-IT-PV)

300, 500, 600, 800, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112, 122

27. TFMOV20Kxxx(-IT) SERIES

150, 300, 350, 460, 550, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112, 122

28. TFMOV20Kxxx(-PV) / (-IT-PV)

300, 500, 600, 800, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112, 122

29. TFMOV40Kxxx(-IT)/(-2IT) SERIES

150, 300, 350, 460, 550, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112, 122

30. TFMOV40Kxxx(-PV) / (-IT-PV) / (-2IT-PV)

300, 500, 600, 800, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112, 122

31. TFMOV10Mxxx SERIES

50, 60, 75, 95, 115, 130, 150, 175, 190, 210, 230, 250, 275, 300, 320, 350, 385, 420, 460, 510, 550, 625, 680



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32. TFMOV20Mxxx SERIES

50、60、75、95、115、130、150、175、190、210、230、250、275、300、320、350、385、420、
460、510、550、625、680、750

33.TTVS15K66、76(Default or suffix -001, -002, -003, ...)

34.TTVS20K66、76 (Default or suffix -001, -002, -003, ...)

35.TTVS15M66、76 (Default or suffix -001, -002, -003, ...)

36. TGDT20K091201

37. TGDT30Mxxx SERIES

38. TFMOV10M50-20、TFMOV10M60-20

39. TFMOV05Mxxx SERIES

50、60、75、95、115、130、140、150、175、190、210、230、250、275、300、320、350、385、
420、

460、510、550、625、680、750

40. TFMOV25Mxxx(T1/T1H) SERIES

50、60、75、95、115、130、150、175、190、210、230、250、275、300、320、350、385、420、
460、510、550、625、680、750

V Surge Protective Device Module & Surge Protective Device

1、SPD34S SERIES

SPD34S () (P1/P2) G- (HTF/HT)

180,270,330,390,470,560,680,820,101,121,151,181,201,221,241,271,301,331,361,391,431,471,
511,561,621,681,751,781,821,911,102,112,122;

2、SM15S SERIES

SM15S () (P1/P2/P3) (N/G) (B/P) (A/B/C/D/M)

180,270,330,390,470,560,680,820,101,121,151,181,201,221,241,271,301,331,361,391,431,471,
511,561,621,681,751,781,821,911,102,112, 122;

3、SM20R SERIES

SM20R () (P1/P2/P3) (N/G) (B/P) (A/B/C/D/M)

180,270,330,390,470,560,680,820,101,121,151,181,201,221,241,271,301,331,361,391,431,471,
511,561,621,681,751,781,821,911,102,112, 122;

4、SM20S SERIES

SM20S () (P1/P2/P3) (N/G) (B/P) (A/B/C/D/M)

180,270,330,390,470,560,680,820,101,121,151,181,201,221,241,271,301,331,361,391,431,471,



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511,561,621,681,751,781,821,911,102,112, 122;

5、SM20K SERIES

SM20K () (P1/P2/P3) (N/G/M) (B/P/R) (A/B/C/D/M/F)

180,270,330,390,470,560,680,820,101,121,151,181,201,221,241,271,301,331,361,391,431,471,

511,561,621,681,751,781,821,911,102,112, 122;

6、SM21R SERIES

SM21R () (P1/P2/P3) (N/G) (B/P) (A/B/C/D/M)

180,270,330,390,470,560,680,820,101,121,151,181,201,221,241,271,301,331,361,391,431,471,

511,561,621,681,751,781,821,911,102,112, 122; SM21RS () 2P- (IT/P)

180,270,330,390,470,560,680,820,101,121,151,181,201,221,241,271,301,331,361,391,431,471,

511,561,621,681,751,781,821,911,102,112, 122;

7、SM25S SERIES

SM25S () (P1/P2/P3) (N/G) (B/P) (A/B/C/D/M)

180,270,330,390,470,560,680,820,101,121,151,181,201,221,241,271,301,331,361,391,431,471,

511,561,621,681,751,781,821,911,102,112, 122;

8、SM34S SERIES

SM34S () (P1/P2/P3) (N/G) (B/P/H) (A/B/C/D/M/H)

180,270,330,390,470,560,680,820,101,121,151,181,201,221,241,271,301,331,361,391,431,471,

511,561,621,681,751,781,821,911,102,112, 122;

9、SD05C SERIES

SD05C () (A/G/L/N) M (T) (-D)

120,277,347,480

10、SD10C SERIES

SD10C () (A/G/L/N/E) M (T) (-D)

120,277,347,480,120/240

11、SD08K SERIES

SD08K () (X1/X2/X3) (G/N) (P/B/C/W) (A/B/C/D)

50,60,75,95,115,

12、SD10K SERIES

SD10K () (X1/X2/X3) (G/N) (P/B/C/W) (A/B/C/D)

130,140,150,175,190, 210,230,250,275,300,320,385,420,460,510

13、SD05K SERIES

SD05K () (A/G/L/N) (M/H) (T) (-D)

120,277,347,480

14、SD05E SERIES



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SD05E () (A/G/L/N) (M/H) (T) (-D)

120,277,347,480

15、SD10E SERIES

SD05E () (A/G/L/N) (M/H) (T) (-D)

120,277,347,480

16、SPB SERIES

SPB05K (1P) () (001.....999)

120,277,347,480

SPB05K () (A/G/L/N) (T) (-D)

120,277,347,480

17、SD**P SERIES

SD10PUR (-3 -4 -5 -7 -5L -7L)

SD10PHR-4

SD (05P/10P) () (A/G/L/N/D) (E/R/S) (-2/-4) (N/T) (L/C)

120,277,347,480

18、SD (20/30) R SERIES

SD (20/30) R () (A/G/L/N/D/I) (H/M/2/3/4/5/7) (01/02/03/04) (T)

120,277,347,480, 230,120/240

19、SD (20/40) K SERIES

SD (20/40) K () (A/G/L/N/D/I) (H/M/2/3/4/5/7) (01/02/03/04) (T)

120,277,347,480, 230,120/240

20、SM (15M/20M/SM20G/SM30G/SM20H) SERIES

SM (15M/20M/20G/30G/20H)

(120/230/240/277/347/480/690/24/48/100/200/300/400/500/600/800/1000/1200/1500)

(A/L/B/C/T/F/O/N) (1/2/3/4/7) (00/01/02/03/04.....14)

21、SD (25T, 25TS, 40T, 50T, 60T) SERIES, T(25, S25, 40, 50, 60) SERIES

SD25T

(150/175/255/275/320/385/440/510/550/680/690/750/760/850/880/1000/1140/1300/100/200/300/400/500/600/800/900/1000/1200/1500) (A/L/G/N) (000/001/002.....999) (PV) (-NR),

T25(M/G)(150/175/255/275/320/385/440/510/550/680/690/750/760/850/100/200/300/400/500/600/800/900/1000)

SD25TS

(150/175/255/275/320/385/440/510/550/680/690/750/760/850/880/1000/1140/1300/100/200/300/400/500/600/800/900/1000/1200/1500) (A/L/G/N) (000/001/002.....999) (PV) (-NR),

TS25(M/G)(150/175/255/275/320/385/440/510/550/680/690/750/760/850/100/200/300/400/500/600/800/900) (PV)

SD40T

(150/175/255/275/320/385/440/510/550/680/690/750/760/850/880/1000/1140/1300/100/200/300/400/500/600/800/900/1000/1200/1500) (A/L/G/N) (000/001/002.....999) (PV) (-NR),



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T40(M/G)(150/175/255/275/320/385/440/510/550/680/690/750/760/850/100/200/300/400/500/600/800/900)
(PV)

SD50T

(150/175/255/275/320/385/440/510/550/680/690/750/760/850/880/1000/1140/1300/100/200/300/400/500/600/800/900/1000/1200/1500) (A/L/G/N) (000/001/002.....999) (PV) (-NR),

T50(M/G)(150/175/255/275/320/385/440/510/550/680/690/750/760/850/100/200/300/400/500/600/800/900)
(PV)

SD60T

(150/175/255/275/320/385/440/510/550/680/690/750/760/850/880/1000/1140/1300/100/200/300/400/500/600/800/900/1000/1200/1500) (A/L/G/N) (000/001/002.....999) (PV) (-NR),

T60(M/G)(150/175/255/275/320/385/440/510/550/680/690/750/760/850/100/200/300/400/500/600/800/900)
(PV)

22、SB20M SERIES

SB20M(120/(120/240)/150/175/220/230/240/277/320/347/440/480/510/550/575/600/690/750/760/1000)(A/G/L/N)(H/M/2/3/4/7)(17/18/19/20/21/22/23/24)

23、SD05P SERIES

SD05P(120/220/240/277/347/480/600)(A/G/L/N/D)E(-/-2/-4)(N/T)(L/C)

24、SD10P SERIES

SD10P(120/220/240/277/347/480/600) (A/G/L/N/D)E(-/-2/-4)(N/T)(L/C)

VI MOV

1、SFV xx D xxx K T

SFV	14D	471	K	I
①	②	③	④	⑤

① “SFV” means product name

YMH	YMJ	SFV	SMV
MOV	TFV	CTFV	PEV

② “14D” means series

5D	7D	9D	10D	11D	12D	13D
14D	15D	18D	20D	25D	32D	53D



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8S	10S	12S	15S	20S	22S	25S
34S	37S	40S	34L	8R	14R	15R
17R	19R	20R	21R	22R	23R	32R
3225	4032					

③ “471” means model type

180	220	270	330	390	470	560
680	820	101	121	151	181	201
221	241	271	301	331	361	391
431	471	511	561	621	681	751
781	821	911	102	112	122	132
142	152	162	172	182		

④ “K” means performance

K	J	Q	S	H
---	---	---	---	---

⑤ “T” means high temperature

N	P	M	T
---	---	---	---

2、IVM 05K Lxxx - 3P4P - N - yyy

① ② ③ ④ ⑤ ⑥

① Product category	IVM	Integrated Varistor Module
② Series code	05K	-
③ VAC	Lxxx	L050~L460
④ Lead Type	3P4P	-
⑤ Normal matching code	N	can be blank
⑥ Inner Code	yyy	001~999

3、SMV 08S xxx K - 2P3P

① ② ③ ④ ⑤

① Product category	SMV	Integrated Varistor Module
② Series code	08S	-
③ Nominal Varistor Voltage	xxx	180~182
④ Voltage Tolerance	K	Maybe replace by J、S、M
⑤ Lead Type	2P3P	-

VII Fusible Wirewound Resistor



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For example:

Part Number System RXF Type

RXF□ □ □ □ - □ □ □
| | | | | | | |
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① First □ means series : RXF21 or RXF21S
- ② Second □ means rated power: "A" means 0.5 W, "B" means 1 W, "C" means 2 W, "D" means 3 W, "E" means 4 W, "F" means 5 W, "G" means 6 W, "H" means 7 W, "J" means 8 W, "K" means 9 W, "L" means 10 W;
- ③ Third □ means nominal resistance, and the resistance is from 0.1 to 1000 ohms;
- ④ Fourth □ means the tolerances of nominal resistance, F:1%, G: 2%, H: 3%, J:5%, K:10%;
- ⑤ Hyphen;
- ⑥ Fifth □ means packaging type, T: Taping, B: Bulk;
- ⑦ Sixth □ means total length, eg: 60: 60 mm, 72: 72 mm, 80: 80 mm;
- ⑧ Last □ means Temperature Coefficient of Resistance, M: ± 350 ($10^{-6}/^{\circ}\text{C}$), T: 800-6000 ($10^{-6}/^{\circ}\text{C}$)

1、RXF21SA SERIES (0.1 Ω ~800 Ω)

RXF21SA□□-T□M, RXF21SA□□-T□T, RXF21SA□□-B□M, RXF21SA□□-B□T

2、RXF21A SERIES (0.1 Ω ~800 Ω)

RXF21A□□-T□M, RXF21A□□-T□T, RXF21A□□-B□M, RXF21A□□-B□T

3、RXF21SB SERIES (0.1 Ω ~800 Ω)

RXF21SB□□-T□M, RXF21SB□□-T□T, RXF21SB□□-B□M, RXF21SB□□-B□T

4、RXF21SC SERIES (0.1 Ω ~1000 Ω)

RXF21SC□□-T□M, RXF21SC□□-T□M, RXF21SC□□-B□M, RXF21SC□□-B□T

5、RXF21SD SERIES (0.1 Ω ~1000 Ω)

RXF21SD□□-T□M, RXF21SD□□-T□M, RXF21SD□□-B□M, RXF21SD□□-B□T

6、RXF21D SERIES (0.1 Ω ~1000 Ω)

RXF21D□□-T□M, RXF21D□□-T□M, RXF21D□□-B□M, RXF21D□□-B□T

7、RXF21E SERIES (0.1 Ω ~1000 Ω)

RXF21E□□-T□M, RXF21E□□-T□M, RXF21E□□-B□M, RXF21E□□-B□T

8、RXF21F SERIES (0.1 Ω ~1000 Ω)



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RXF21F□□-T□M, RXF21F□□-T□M, RXF21F□□-B□M, RXF21F□□-B□T

9、RXF21G SERIES (0.1 Ω~1000 Ω)

RXF21G□□-T□M, RXF21G□□-T□M, RXF21G□□-B□M, RXF21G□□-B□T

10、RXF21H SERIES (0.1 Ω~1000 Ω)

RXF21H□□-T□M, RXF21H□□-T□M, RXF21H□□-B□M, RXF21H□□-B□T

11、RXF21J SERIES (0.1 Ω~1000 Ω)

RXF21J□□-T□M, RXF21J□□-T□M, RXF21J□□-B□M, RXF21J□□-B□T

12、RXF21K SERIES (0.1 Ω~1000 Ω)

RXF21K□□-T□M, RXF21K□□-T□M, RXF21K□□-B□M, RXF21K□□-B□T

13、RXF21L SERIES (0.1 Ω~1000 Ω)

RXF21L□□-T□M, RXF21L□□-T□M, RXF21L□□-B□M, RXF21L□□-B□T

VIII FUSE

1、SGF520 SERIES(200mA-20A)

SGF520-200mA, SGF520-250mA, SGF520-315mA, SGF520-350mA, SGF520-375mA, SGF520-400mA, SGF520-500mA, SGF520-630mA, SGF520-750mA, SGF520-800mA, SGF520-1A,SGF520-1.25A, SGF520- 1.6A, SGF520-2A, SGF520-2.5A, SGF520-3A, SGF520-3.15A, SGF520-3.5A,SGF520-4A, SGF520-5A, SGF520-6.3A, SGF520-8A, SGF520-10A, SGF520-12A, SGF520-12.5A, SGF520-15A, SGF520-16A, SGF520-20A, SGF520-200mA-L, SGF520-250mA-L, SGF520-315mA-L, SGF520-350mA-L, SGF520- 375mA-L, SGF520-400mA-L, SGF520-500mA-L, SGF520-630mA-L, SGF520-750mA-L, SGF520-800mA-L, SGF520-1A-L, SGF520-1.25A-L, SGF520-1.6A-L, SGF520-2A-L, SGF520-2.5A-L, SGF520-3A-L, SGF520-3.15A-L, SGF520-3.5A-L, SGF520-4A-L, SGF520-5A-L, SGF520-6.3A-L, SGF520-8A-L, SGF520-10A-L, SGF520-12A-L, SGF520-12.5A-L, SGF520-15A-L, SGF520-16A-L, SGF520- 20A-L;

2、SGT520 SERIES(200mA-20A)

SGT520-200mA, SGT520-250mA, SGT520-315mA, SGT520-350mA, SGT520-375mA, SGT520-400mA, SGT520-500mA, SGT520-630mA, SGT520-750mA, SGT520-800mA, SGT520-1A, SGT520-1.25A, SGT520-1.6A, SGT520-2A, SGT520-2.5A, SGT520-3A, SGT520-3.15A, SGT520-3.5A, SGT520-4A, SGT520-5A, SGT520-6.3A, SGT520-8A, SGT520-10A, SGT520-12A, SGT520-12.5A, SGT520-15A, SGT520-16A, SGT520-20A;SGT520-200mA-L, SGT520-250mA-L, SGT520-315mA-L, SGT520-350mA-L, SGT520-375mA-L, SGT520-400mA-L, SGT520-500mA-L, SGT520-630mA-L, SGT520-750mA-L, SGT520-800mA-L, SGT520-1A-L, SGT520-1.25A-L, SGT520-1.6A-L, SGT520-2A-L, SGT520-2.5A-L, SGT520-3A-L, SGT520-3.15A-L, SGT520-3.5A-L, SGT520-4A-L, SGT520-5A-L, SGT520-6.3A-L, SGT520-8A-L, SGT520-10A-L, SGT520-12A-L, SGT520-12.5A-L, SGT520-15A-L, SGT520-16A-L, SGT520-20A-L;



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3、SCT520 SERIES (100 mA - 50 A) / (32 V - 690 V)

SCT520 T xA xV

SCT520	T	xA	xV
①	②	③	④

①	Series: SCT520
②	T
③	Rated Current: (100 mA - 50 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、32 A、35 A、40 A、45 A、50 A、
④	Rated Voltage: (32 V - 690 V) 32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V、650 V、660 V、690 V、

4、SCF520 SERIES (100 mA - 50 A) / (32 V - 690 V)

SCF520 F xA xV

SCF520	F	xA	xV
①	②	③	④

①	Series: SCF520
②	F
③	Rated Current: (100 mA - 50 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、32 A、35 A、40 A、45 A、50 A、
④	Rated Voltage: (32 V - 690 V) 32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V、650 V、660 V、690 V、

5、SCT520P SERIES (100 mA - 50 A) / (32 V - 690 V)

SCT520P T xA xV

SCT520P	T	xA	xV
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①	②	③	④
---	---	---	---

①	Series: SCT520P
②	T
③	Rated Current: (100 mA - 50 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、32 A、35 A、40 A、45 A、50 A、
④	Rated Voltage: (32 V - 690 V) 32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V、650 V、660 V、690 V、

6、SCF520P SERIES (100 mA - 50 A) / (32 V - 690 V)

SCF520P F xA xV

SCF520P	F	xA	xV
①	②	③	④

①	Series: SCF520P
②	F
③	Rated Current: (100 mA - 50 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、32 A、35 A、40 A、45 A、50 A、
④	Rated Voltage: (32 V - 690 V) 32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V、650 V、660 V、690 V、

7、SGTU3610 SERIES(200mA-10A)

SGTU3610-200mA-L, SGTU3610-250mA-L, SGTU3610-315mA-L, SGTU3610-350mA-L, SGTU3610-375mA-L, SGTU3610-400mA-L, SGTU3610-500mA-L, SGTU3610-630mA-L,
SGTU3610-750mA-L, SGTU3610-800mA-L, SGTU3610-1A-L, SGTU3610-1.25A-L, SGTU3610-1.6A-L,
SGTU3610-2A-L, SGTU3610-2.5A-L, SGTU3610-3A-L, SGTU3610-3.15A-L, SGTU3610-3.5A-L,
SGTU3610- 4A-L, SGTU3610-5A-L, SGTU3610-6.3A-L, SGTU3610-8A-L, SGTU3610-10A-L,

8、SGFU3610 SERIES(200mA-10A)

SGFU3610-200mA-L, SGFU3610-250mA-L, SGFU3610-315mA-L, SGFU3610-350mA-L, SGFU3610-375mA-L, SGFU3610-400mA-L, SGFU3610-500mA-L, SGFU3610-630mA-L,SGFU3610-750mA-L,
SGFU3610-800mA-L,SGFU3610-1A-L, SGFU3610-1.25A-L,SGFU3610-1.6A-L, SGFU3610-2A-L,
SGFU3610-2.5A-L, SGFU3610-3A-L, SGFU3610-3.15A-L, SGFU3610-3.5A-L,



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SGFU3610- 4A-L, SGFU3610-5A-L, SGFU3610-6.3A-L, SGFU3610-8A-L, SGFU3610-10A-L.

9、SCTU3610 SERIES(200mA-10A)

SCTU3610-200mA-L, SCTU3610-250mA-L, SCTU3610-315mA-L, SCTU3610-350mA-L, SCTU3610-375mA-L, SCTU3610-400mA-L, SCTU3610-500mA-L, SCTU3610-630mA-L, SCTU3610-750mA-L, SCTU3610-800mA-L, SCTU3610-1A-L, SCTU3610-1.25A-L, SCTU3610-1.6A-L, SCTU3610-2A-L, SCTU3610-2.5A-L, SCTU3610-3A-L, SCTU3610-3.15A-L, SCTU3610-3.5A-L, SCTU3610-4A-L, SCTU3610-5A-L, SCTU3610-6.3A-L, SCTU3610-8A-L, SCTU3610-10A-L,

10、SCFU3610 SERIES(200mA-10A)

SCFU3610-200mA-L, SCFU3610-250mA-L, SCFU3610-315mA-L, SCFU3610-350mA-L, SCFU3610-375mA-L, SCFU3610-400mA-L, SCFU3610-500mA-L, SCFU3610-630mA-L, SCFU3610-750mA-L, SCFU3610-800mA-L, SCFU3610-1A-L, SCFU3610-1.25A-L, SCFU3610-1.6A-L, SCFU3610-2A-L, SCFU3610-2.5A-L, SCFU3610-3A-L, SCFU3610-3.15A-L, SCFU3610-3.5A-L, SCFU3610-4A-L, SCFU3610-5A-L, SCFU3610-6.3A-L, SCFU3610-8A-L, SCFU3610-10A-L.

11、SCT6125 SERIES(100mA-30A) / (24 V - 600 V)

SCT6125 T xA xV

SCT6125	T	xA	xV
①	②	③	④

①	Series: SCT6125
②	T
③	Rated Current: (100 mA - 30 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A
④	Rated Voltage: (24 V - 600 V) 24 V、32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V

12、SCF6125 SERIES(100mA-30A) / (24 V - 600 V)

SCF6125 F xA xV

SCF6125	F	xA	xV
①	②	③	④

①	Series: SCF6125
②	F



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③	Rated Current: (100 mA - 30 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A
④	Rated Voltage: (24 V - 600 V) 24 V、32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V

13、SCT1032 SERIES(100mA-30A) / (24 V - 600 V)

SCT1032 T xA xV

SCT1032	T	xA	xV
①	②	③	④

①	Series: SCT1032
②	T
③	Rated Current: (100 mA - 30 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A
④	Rated Voltage: (24 V - 600 V) 24 V、32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V

14、SCF1032 SERIES(200mA-100A) / (24 V - 600 V)

SCF1032 F xA xV

SCF1032	F	xA	xV
①	②	③	④



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①	Series: SCF1032
②	F
③	Rated Current: (100 mA - 100 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、35 A、40 A、45 A、50 A、60 A、63 A、70 A、80 A、90 A、100 A
④	Rated Voltage: (24 V - 600 V) 24 V、32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V

15、SCF632 SERIES(100 mA – 100 A) / (32 V - 800 V)

SCF632 xA xV

SCF632	xA	xV
①	②	③

①	Series: SCF632
②	Rated Current: (100 mA - 100 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、35 A、40 A、45 A、50 A、60 A、63 A、70 A、80 A、90 A、100 A
③	Rated Voltage: (32 V - 800 V) 32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V、650 V、660 V、690 V、700 V、750 V、800 V

16、SCF632P SERIES(100 mA – 100 A) / (32 V - 800 V)

SCF632P xA xV

SCF632P	xA	xV
①	②	③



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①	Series: SCF632P
②	Rated Current: (100 mA - 100 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、35 A、40 A、45 A、50 A、60 A、63 A、70 A、80 A、90 A、100 A
③	Rated Voltage: (32 V - 800 V) 32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V、650 V、660 V、690 V、700 V、750 V、800 V

17、SCF632H SERIES (100 mA – 100 A) / (32 V - 1200 V)

SCF632H xA xV

SCF632H	xA	xV
①	②	③

①	Series: SCF632H
②	Rated Current: (100 mA - 100 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、35 A、40 A、45 A、50 A、60 A、63 A、70 A、80 A、90 A、100 A
③	Rated Voltage: (32 V - 1200 V) 32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V、650 V、660 V、690 V、700 V、750 V、800 V、900 V、1000 V、1100 V、1200 V

18、SCF632A SERIES (100 mA – 100 A) / (32 V - 1200 V)

SCF632A xA xV

SCF632A	xA	xV
①	②	③



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①	Series: SCF632A
②	Rated Current: (100 mA - 100 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、35 A、40 A、45 A、50 A、60 A、63 A、70 A、80 A、90 A、100 A
③	Rated Voltage: (32 V - 1200 V) 32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V、650 V、660 V、690 V、700 V、750 V、800 V、900 V、1000 V、1100 V、1200 V

19、SCF632AP SERIES (100 mA – 100 A) / (32 V - 1200 V)

SCF632AP xA xV

SCF632AP	xA	xV
①	②	③

①	Series: SCF632AP
②	Rated Current: (100 mA - 100 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、35 A、40 A、45 A、50 A、60 A、63 A、70 A、80 A、90 A、100 A
③	Rated Voltage: (32 V - 1200 V) 32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V、650 V、660 V、690 V、700 V、750 V、800 V、900 V、1000 V、1100 V、1200 V

20、SCF625 SERIES (100 mA – 100 A) / (32 V - 800 V)

SCF625 xA xV

SCF625	xA	xV
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①	②	③
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①	Series: SCF625
②	Rated Current: (100 mA - 100 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、35 A、40 A、45 A、50 A、60 A、63 A、70 A、80 A、90 A、100 A
③	Rated Voltage: (32 V - 800 V) 32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V、650 V、660 V、690 V、700 V、750 V、800 V

21、SCF625P SERIES (100 mA – 100 A) / (32 V - 800 V)

SCF625P xA xV

SCF625P	xA	xV
①	②	③

①	Series: SCF625P
②	Rated Current: (100 mA - 100 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、35 A、40 A、45 A、50 A、60 A、63 A、70 A、80 A、90 A、100 A
③	Rated Voltage: (32 V - 800 V) 32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V、650 V、660 V、690 V、700 V、750 V、800 V

22、SCF4512 (100 mA – 150 A) / (32 V - 600 V)

SCF4512 F xA xV

SCF4512	F	xA	xV
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①	Series: SCF4512
②	F / T / blank
③	Rated Current: (100 mA - 150 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、35 A、40 A、45 A、50 A、60 A、63 A、70 A、80 A、90 A、100 A、120 A、125 A、130 A、135 A、140 A、145 A、150 A
④	Rated Voltage: (24 V - 600 V) 24 V、32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、500 V、550 V、600 V

23、SCF467 (100 mA – 150 A) / (32 V - 600 V)

SCF467F xA xV

SCF467	F	xA	xV
①	②	③	④

①	Series: SCF467
②	F / T / blank
③	Rated Current: (100 mA - 150 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、25 A、30 A、35 A、40 A、45 A、50 A、60 A、63 A、70 A、80 A、90 A、100 A、120 A、125 A、130 A、135 A、140 A、145 A、150 A
④	Rated Voltage: (24 V - 600 V)



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24 V、32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、 500 V、550 V、600 V
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24、SCT1032H SERIES(200mA-100A) / (24 V - 690 V)

SCT1032H T xA xV

SCT1032H	T	xA	xV
①	②	③	④

①	Series: SCT1032H
②	T
③	Rated Current: (100 mA - 100 A) 100 mA、125 mA、150 mA、160 mA、200 mA、225 mA、250 mA、300 mA、315 mA、 375 mA、400 mA、450 mA、500 mA、600 mA、630 mA、700 mA、750 mA、800 mA、1 A、1.25 A、1.5 A、1.6 A、2 A、2.25 A、2.5 A、3 A、3.15 A、3.5 A、3.75 A、4 A、 5 A、6 A、6.3 A、7 A、8 A、9 A、10 A、12 A、12.5 A、15 A、16 A、20 A、21 A、 25 A、30 A、35 A、40 A、45 A、50 A、60 A、63 A、70 A、80 A、90 A、100 A
④	Rated Voltage: (24 V - 690 V) 24 V、32 V、48 V、63 V、75 V、125 V、250 V、300 V、350 V、400 V、420 V、450 V、 500 V、550 V、600 V、650 V、660 V、690 V

IX Thermal-link & Resistor

RXF21SB1R5J&V4-LD

X Thermal Protection Resistor

1、TPR3 - □□□LB series (0.47 Ω~800 Ω)

2、TPR5 - □□□LB series (0.47 Ω~1000 Ω)

3、TPR10 - □□□LB series (0.47 Ω~2000 Ω)

<u>TPR</u>	<u>3/5/10</u>	<u>-</u>	<u>□</u>	<u>□</u>	<u>□</u>	<u>L</u>	<u>B</u>
Where							
①	②	③	④	⑤	⑥	⑦	⑧

- ① TPR is product name;
 ② Rated power : "3" means 3 W, "5" means 5 W, "10" means 10 W;
 ③ Hyphen;



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- ④ First □ means nominal resistance, and the resistance is from 0.47 to 2000 ohms;
 ⑤ Second □ means the tolerances of nominal resistance, H: 2%, J:5%, K:10%;
 ⑥ Third □ means thermal-link code:

41 means B1 ($T_F=102\text{ }^{\circ}\text{C}$)	21 means H1 ($T_F=102\text{ }^{\circ}\text{C}$)	61 means C1 ($T_F=102\text{ }^{\circ}\text{C}$)
42 means B2 ($T_F=115\text{ }^{\circ}\text{C}$)	22 means H2 ($T_F=115\text{ }^{\circ}\text{C}$)	62 means C2 ($T_F=115\text{ }^{\circ}\text{C}$)
43 means B3 ($T_F=125\text{ }^{\circ}\text{C}$)	23 means H3 ($T_F=125\text{ }^{\circ}\text{C}$)	63 means C3 ($T_F=125\text{ }^{\circ}\text{C}$)
44 means B4 ($T_F=130\text{ }^{\circ}\text{C}$)	24 means H4 ($T_F=130\text{ }^{\circ}\text{C}$)	64 means C4 ($T_F=130\text{ }^{\circ}\text{C}$)
45 means B5 ($T_F=135\text{ }^{\circ}\text{C}$)	25 means H5 ($T_F=135\text{ }^{\circ}\text{C}$)	65 means C5 ($T_F=135\text{ }^{\circ}\text{C}$)
46 means B6 ($T_F=145\text{ }^{\circ}\text{C}$)	26 means H6 ($T_F=145\text{ }^{\circ}\text{C}$)	66 means C6 ($T_F=145\text{ }^{\circ}\text{C}$)
47 means B7 ($T_F=150\text{ }^{\circ}\text{C}$)	27 means H7 ($T_F=150\text{ }^{\circ}\text{C}$)	67 means C7 ($T_F=150\text{ }^{\circ}\text{C}$)
48 means B16 ($T_F=160\text{ }^{\circ}\text{C}$)	28 means H16 ($T_F=160\text{ }^{\circ}\text{C}$)	68 means C16 ($T_F=160\text{ }^{\circ}\text{C}$)
49 means B32 ($T_F=205\text{ }^{\circ}\text{C}$)	29 means H32 ($T_F=205\text{ }^{\circ}\text{C}$)	69 means C32 ($T_F=205\text{ }^{\circ}\text{C}$)
50 means B31 ($T_F=221\text{ }^{\circ}\text{C}$)	30 means H31 ($T_F=221\text{ }^{\circ}\text{C}$)	70 means C32 ($T_F=221\text{ }^{\circ}\text{C}$)

- ⑦ L: 2 pins;
 ⑧ B: Square shape ceramic case.

4、TPRB - □□□FB series (0.47 Ω ~1000 Ω)

5、TPRC - □□□FB series (0.47 Ω ~1000 Ω)

6、TPRD - □□□FB series (0.47 Ω ~1000 Ω)

TPR B/C - □ □ □ F B

- ① TPR is product name;

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ② Rated power : "B" means 1 W, "C" means 2 W;
 ③ Hyphen;
 ④ First □ means nominal resistance, and the resistance is from 0.47 to 1000 ohms;
 ⑤ Second □ means the tolerances of nominal resistance, H: 2%, J:5%, K:10%;
 ⑥ Third □ means thermal-link code:

41 means B1 ($T_F=102\text{ }^{\circ}\text{C}$)	21 means H1 ($T_F=102\text{ }^{\circ}\text{C}$)	61 means C1 ($T_F=102\text{ }^{\circ}\text{C}$)
42 means B2 ($T_F=115\text{ }^{\circ}\text{C}$)	22 means H2 ($T_F=115\text{ }^{\circ}\text{C}$)	62 means C2 ($T_F=115\text{ }^{\circ}\text{C}$)
43 means B3 ($T_F=125\text{ }^{\circ}\text{C}$)	23 means H3 ($T_F=125\text{ }^{\circ}\text{C}$)	63 means C3 ($T_F=125\text{ }^{\circ}\text{C}$)



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44 means B4 ($T_F=130\text{ }^{\circ}\text{C}$)	24 means H4 ($T_F=130\text{ }^{\circ}\text{C}$)	64 means C4 ($T_F=130\text{ }^{\circ}\text{C}$)
45 means B5 ($T_F=135\text{ }^{\circ}\text{C}$)	25 means H5 ($T_F=135\text{ }^{\circ}\text{C}$)	65 means C5 ($T_F=135\text{ }^{\circ}\text{C}$)
46 means B6 ($T_F=145\text{ }^{\circ}\text{C}$)	26 means H6 ($T_F=145\text{ }^{\circ}\text{C}$)	66 means C6 ($T_F=145\text{ }^{\circ}\text{C}$)
47 means B7 ($T_F=150\text{ }^{\circ}\text{C}$)	27 means H7 ($T_F=150\text{ }^{\circ}\text{C}$)	67 means C7 ($T_F=150\text{ }^{\circ}\text{C}$)
48 means B16 ($T_F=160\text{ }^{\circ}\text{C}$)	28 means H16 ($T_F=160\text{ }^{\circ}\text{C}$)	68 means C16 ($T_F=160\text{ }^{\circ}\text{C}$)
49 means B32 ($T_F=205\text{ }^{\circ}\text{C}$)	29 means H32 ($T_F=205\text{ }^{\circ}\text{C}$)	69 means C32 ($T_F=205\text{ }^{\circ}\text{C}$)
50 means B31 ($T_F=221\text{ }^{\circ}\text{C}$)	30 means H31 ($T_F=221\text{ }^{\circ}\text{C}$)	70 means C32 ($T_F=221\text{ }^{\circ}\text{C}$)

⑦ F: 4 pins;

⑧ B: Square shape ceramic case.

7、TPRB - 2 - □□□GB series (0.47 Ω ~1000 Ω)

8、TPRC - 2 - □□□GB series (0.47 Ω ~1000 Ω)

TPR B/C - 2 - □ □ □ G B
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① TPR is product name;

② Rated power : "B" means 1 W, "C" means 2 W;

③ Hyphen;

④ "2" means 2 resistors in product;

⑤ First □ means nominal resistance, and the resistance is from 0.47 to 1000 ohms;

⑥ Second □ means the tolerances of nominal resistance, H: 2%, J:5%, K:10%;

⑦ Third □ means thermal-link code:

41 means B1 ($T_F=102\text{ }^{\circ}\text{C}$)	21 means H1 ($T_F=102\text{ }^{\circ}\text{C}$)	61 means C1 ($T_F=102\text{ }^{\circ}\text{C}$)
42 means B2 ($T_F=115\text{ }^{\circ}\text{C}$)	22 means H2 ($T_F=115\text{ }^{\circ}\text{C}$)	62 means C2 ($T_F=115\text{ }^{\circ}\text{C}$)
43 means B3 ($T_F=125\text{ }^{\circ}\text{C}$)	23 means H3 ($T_F=125\text{ }^{\circ}\text{C}$)	63 means C3 ($T_F=125\text{ }^{\circ}\text{C}$)
44 means B4 ($T_F=130\text{ }^{\circ}\text{C}$)	24 means H4 ($T_F=130\text{ }^{\circ}\text{C}$)	64 means C4 ($T_F=130\text{ }^{\circ}\text{C}$)
45 means B5 ($T_F=135\text{ }^{\circ}\text{C}$)	25 means H5 ($T_F=135\text{ }^{\circ}\text{C}$)	65 means C5 ($T_F=135\text{ }^{\circ}\text{C}$)
46 means B6 ($T_F=145\text{ }^{\circ}\text{C}$)	26 means H6 ($T_F=145\text{ }^{\circ}\text{C}$)	66 means C6 ($T_F=145\text{ }^{\circ}\text{C}$)



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47 means B7 ($T_F=150\text{ }^{\circ}\text{C}$)	27 means H7 ($T_F=150\text{ }^{\circ}\text{C}$)	67 means C7 ($T_F=150\text{ }^{\circ}\text{C}$)
48 means B16 ($T_F=160\text{ }^{\circ}\text{C}$)	28 means H16 ($T_F=160\text{ }^{\circ}\text{C}$)	68 means C16 ($T_F=160\text{ }^{\circ}\text{C}$)
49 means B32 ($T_F=205\text{ }^{\circ}\text{C}$)	29 means H32 ($T_F=205\text{ }^{\circ}\text{C}$)	69 means C32 ($T_F=205\text{ }^{\circ}\text{C}$)
50 means B31 ($T_F=221\text{ }^{\circ}\text{C}$)	30 means H31 ($T_F=221\text{ }^{\circ}\text{C}$)	70 means C32 ($T_F=221\text{ }^{\circ}\text{C}$)

⑧ G: 6 pins;

⑨ B: Square shape ceramic case.

9、TPRB - 2 - □□□GB series (0.47 Ω ~1000 Ω)

10、TPRC - 2 - □□□GB series (0.47 Ω ~1000 Ω)

<u>TPR</u>	<u>B/C</u>	<u>-</u>	<u>2</u>	<u>-</u>	<u>□</u>	<u>□</u>	<u>□</u>	<u>G</u>	<u>B</u>
①	②	③	④	③	⑤	⑥	⑦	⑧	⑨

① TPR is product name;

② Rated power : "B" means 1 W, "C" means 2 W;

③ Hyphen;

④ "2" means 2 thermal-links in product;

⑤ First □ means thermal-link code:

41 means B1 ($T_F=102\text{ }^{\circ}\text{C}$)	21 means H1 ($T_F=102\text{ }^{\circ}\text{C}$)	61 means C1 ($T_F=102\text{ }^{\circ}\text{C}$)
42 means B2 ($T_F=115\text{ }^{\circ}\text{C}$)	22 means H2 ($T_F=115\text{ }^{\circ}\text{C}$)	62 means C2 ($T_F=115\text{ }^{\circ}\text{C}$)
43 means B3 ($T_F=125\text{ }^{\circ}\text{C}$)	23 means H3 ($T_F=125\text{ }^{\circ}\text{C}$)	63 means C3 ($T_F=125\text{ }^{\circ}\text{C}$)
44 means B4 ($T_F=130\text{ }^{\circ}\text{C}$)	24 means H4 ($T_F=130\text{ }^{\circ}\text{C}$)	64 means C4 ($T_F=130\text{ }^{\circ}\text{C}$)
45 means B5 ($T_F=135\text{ }^{\circ}\text{C}$)	25 means H5 ($T_F=135\text{ }^{\circ}\text{C}$)	65 means C5 ($T_F=135\text{ }^{\circ}\text{C}$)
46 means B6 ($T_F=145\text{ }^{\circ}\text{C}$)	26 means H6 ($T_F=145\text{ }^{\circ}\text{C}$)	66 means C6 ($T_F=145\text{ }^{\circ}\text{C}$)
47 means B7 ($T_F=150\text{ }^{\circ}\text{C}$)	27 means H7 ($T_F=150\text{ }^{\circ}\text{C}$)	67 means C7 ($T_F=150\text{ }^{\circ}\text{C}$)
48 means B16 ($T_F=160\text{ }^{\circ}\text{C}$)	28 means H16 ($T_F=160\text{ }^{\circ}\text{C}$)	68 means C16 ($T_F=160\text{ }^{\circ}\text{C}$)
49 means B32 ($T_F=205\text{ }^{\circ}\text{C}$)	29 means H32 ($T_F=205\text{ }^{\circ}\text{C}$)	69 means C32 ($T_F=205\text{ }^{\circ}\text{C}$)
50 means B31 ($T_F=221\text{ }^{\circ}\text{C}$)	30 means H31 ($T_F=221\text{ }^{\circ}\text{C}$)	70 means C32 ($T_F=221\text{ }^{\circ}\text{C}$)

⑥ Second □ means nominal resistance, and the resistance is from 0.47 to 1000 ohms;



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⑦ Third ☐ means the tolerances of nominal resistance, H: 2%, J:5%, K:10%;

⑧ G: 6 pins;

⑨ B: Square shape ceramic case.

XI Inrush current limiting NTC thermistor

1、SCLxxD-5 Series

2.5、3、4、4.7、5、6、6.8、7、8、10、12、13、15、16、18、20、22、25、30、33、40、47、50、60、80、100、120、220

2、SCLxxD-7 Series

1.3、1.5、2、2.2、2.5、3、4、4.7、5、6、6.8、7、8、10、12、13、15、16、18、20、22、25、30、33、40、47、50、60、80、100、120、220

3、SCLxxD-9 Series

1、1.3、1.5、2、2.2、2.5、3、4、4.7、5、6、6.8、7、8、10、12、13、15、16、18、20、22、25、30、33、40、47、50、60、80、100、120、220

4、SCLxxD-11 Series

0.7、1、1.3、1.5、2、2.2、2.5、3、4、4.7、5、6、6.8、7、8、10、12、15、16、18、20、22、25、30、33、40、47、50、60、80、100、120、150、220

5、SCLxxD-13 Series

0.5、0.7、1、1.3、1.5、2、2.2、2.5、3、4、4.7、5、6、6.8、7、8、10、12、15、16、18、20、22、25、30、33、40、47、50、60、80、100、120、220

6、SCLxxD-15 Series

0.5、0.7、1、1.3、1.5、2、2.2、2.5、3、4、4.7、5、6、6.8、7、8、10、12、13、15、16、18、20、22、25、30、33、40、47、50、60、80、100、120、220

7、SCLxxD-20 Series

0.2、0.3、0.5、0.7、1、1.3、1.5、2、2.2、2.5、3、4、4.7、5、6、6.8、7、8、10、12、13、14、15、16、18、20、22、25、30、33、40、47、50、55、60、120

8、SCLxxD-25 Series

0.2、0.3、0.5、0.7、1、1.3、1.5、2、2.2、2.5、3、4、4.7、5、6、6.8、7、8、10、12、13、15、16、18、20、25、30、33

9、SCLxxD-30 Series

0.2、0.3、0.5、0.7、1、1.3、1.5、2、2.2、2.5、3、4、4.7、5、6、6.8、7、8、10、12、13、15、16、18、20、25、30、33

XII Gas Discharge Tube(Fe-Ni Electrode)

SE Series、SF Series、TR Series、SM Series、SZ Series、SPA Series、SPN Series、SPH Series、SPO Series、SPK Series、TZ-L Series

XIII Gas Discharge Tube(Cu Electrode)

SW Series、SX Series、SD Series、SN Series、SS Series、SC Series、SH Series、SK Series、TZSeries、SPB Series、SPC Series、SPJ Series、SPI Series、SPS Series、TPI Series、TPA Series、SPP Series

XIV Film Resistor

For example

CFR21S B 10R J - T 60 M

①	②	③	④	⑤	⑥	⑦	⑧



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- ① CFR21S means product series

CFR21	CFR21S	MFR21	MFR21S	MOFR21	MOFR21S
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- ② B means rated power: "A" means 0.5 W, "B" means 1 W, "C" means 2 W, "D" means 3 W;

- ③ 10R means nominal resistance, and the resistance is from 0.1 to 10M ohms;

- ④ J means the tolerances of nominal resistance, F:1%, G: 2%, H: 3%, J:5%, K:10%;

- ⑤ Hyphen;

- ⑥ T means packaging type, T: Taping, B: Bulk;

- ⑦ 60 means total length, eg: 60: 60 mm, 72: 72 mm, 80: 80 mm;

- ⑧ M means Temperature Coefficient of Resistance, N: ± 100 ($10^{-6}/^{\circ}\text{C}$), M: ± 350 ($10^{-6}/^{\circ}\text{C}$),
T: 800-6000 ($10^{-6}/^{\circ}\text{C}$)

XV Thermal link & Film Resistor

For example

TCFR	1	-	10R	J	30	T	D
①	②	③	④	⑤	⑥	⑦	⑧

- ① TCFR means product name

TCFR	TMFR	TMOFR
------	------	-------

- ② 1 means rated power: "1" means 1 W, "2" means 2 W;

- ③ Hyphen;

- ④ 10R means nominal resistance, and the resistance is from 10 to 10M ohms;

- ⑤ J means the tolerances of nominal resistance, F:1%, G: 2%, H: 3%, J:5%, K:10%;

- ⑥ 30 means thermal-link code, 26: H6 ($T_f=145^{\circ}\text{C}$), 30: H31 ($T_f=221^{\circ}\text{C}$)

- ⑦ T means packaging type, T: Taping, B: Bulk;

- ⑧ D means Coating

XVI Cement Resistor

For example

CR	3	-	10R	J	L	B



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① ② ③ ④ ⑤ ⑥ ⑦

- ① CR means product name
- ② 3 means rated power: "3" means 3 W, "5" means 5 W, "7" means 7 W, "8" means 8 W, "10" means 10 W;
- ③ Hyphen;
- ④ 10R means nominal resistance, and the resistance is from 0.47 to 1000 ohms;
- ⑤ J means the tolerances of nominal resistance, F:1%, G: 2%, H: 3%, J:5%, K:10%;
- ⑥ L means 2 pins;
B means square shape ceramic case



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