Polypropylene Pulse/High Frequency Capacitors

R76, Double Metallized Polypropylene Film, Radial, DC and Pulse Applications (Automotive Grade)

Overview

The R76 series is constructed of polypropylene film and double metallized polyester film as electrodes with radial leads of tinned wire. The radial leads are electrically welded to the metal layer on the ends of the capacitor winding. The capacitor is encapsulated in a self-extinguishing solvent resistant plastic case with thermosetting resin material meeting UL 94 V–0 requirements. Two different winding constructions are used depending on voltage parameters. Please see the Performance Characteristics for more information.

Automotive grade devices (up to lead spacing 22.5 mm) meet the demanding Automotive Electronics Council's AEC–Q200 qualification requirements.

Applications

Typical applications include resonant circuit, high frequency high current, snubber and silicon-controlled rectifier (SCR and IGBT) and SiC (e.g. MOSFET) commutation circuits as well as applications with high voltage and high current.

Not suitable for across-the-line application (see Suppressor Capacitors).

Benefits

- Voltage range: 250 – 2,000 VDC
- Capacitance range: 100 pF – 12 µF
- Lead Spacing: 7.5 mm – 37.5 mm
- Capacitance tolerance: ±2.5%, ±5%, ±10%
- Climatic category: 55/110/56 IEC 60068–1
- Operating temperature range of –55°C to +110°C
- RoHS compliance and lead-free terminations
- Tape & Reel packaging in accordance with IEC 60286–2
- Self-healing
- Automotive (AEC–Q200) grades available up to lead spacing 22.5 mm

Part Number System

R76	I	D	1680	SE	30		K
Series	Rated Voltage (VDC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use		Capacitance Tolerance
Double Metallized Polypropylene	I = 250 M = 400 P = 630 Q = 1,000 T = 1,600 U = 2,000	D = 7.5 F = 10 I = 15 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies the total number of zeros to be added.	See Ordering Options Table	00 10 20 30 40	50 60 70 80 L0	H = ±2.5% (*) J = ±5% K = ±10% (*) = for C ≥ 1,000 pF

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Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
7.5	**Standard Lead and Packaging Options**		
	Bulk – Short Leads	4 +2/−0	SE
	Ammo Pack	H_0 = 18.5±0.5	DQ
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel Ø 355 mm)	H_0 = 18.5±0.5	CK
	Bulk – Short Leads	2.7 +0.5/−0	JA
	Bulk – Short Leads	3.5 +0.5/−0	JB
	Bulk – Short Leads	4.0 +0.5/−0	JE
	Bulk – Short Leads	3.2 +0.3/−0.2	JH
	Bulk – Long Leads	18±1	JM
	Bulk – Long Leads	17 +1/−2	Z3
10 15 22.5	**Standard Lead and Packaging Options**		
	Bulk (Bag) – Short Leads	4 +2/−0	SE
	Ammo Pack	H_0 = 18.5±0.5	DQ
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel Ø 355 mm)	H_0 = 18.5±0.5	GY
	Tape & Reel (Large Reel Ø 500 mm)	H_0 = 18.5±0.5	CK
	Bulk (Bag) – Short Leads	2.7 +0.5/−0	JA
	Bulk (Bag) – Short Leads	3.5 +0.5/−0	JB
	Bulk (Bag) – Short Leads	10±1	JC
	Bulk (Bag) – Short Leads	4.0 +0.5/−0	JE
	Bulk (Bag) – Short Leads	3.2 +0.3/−0.2	JH
	Bulk (Bag) – Long Leads	18±1	JM
	Bulk (Bag) – Long Leads	30 +5/−0	40
	Bulk (Bag) – Long Leads	25 +2/−1	50
27.5	**Standard Lead and Packaging Options**		
	Bulk (Tray) – Short Leads	4 +2/−0	SE
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel Ø 355 mm)	H_0 = 18.5±0.5	GY
	Tape & Reel (Large Reel Ø 500 mm)	H_0 = 18.5±0.5	CK[1]
	Bulk (Tray) – Short Leads	3.5 +0.5/−0	JB
	Bulk (Tray) – Short Leads	4.0 +0.5/−0	JE
	Bulk (Tray) – Short Leads	3.2 +0.3/−0.2	JH
	Bulk (Tray) – Long Leads	30 +5/−0	40
	Bulk (Tray) – Long Leads	25 +2/−1	50

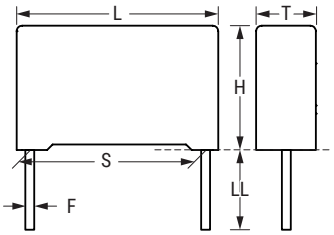
[1] = *Not for all sizes, see "Packaging Quantities" table.*

Ordering Options Table cont.

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
37.5	**Standard Lead and Packaging Options**		
	Bulk (Tray) – Short Leads	4 +2/–0	SE
	Other Lead and Packaging Options		
	Bulk (Tray) – Short Leads	3.5 +0.5/–0	JB
	Bulk (Tray) – Short Leads	4.0 +0.5/–0	JE
	Bulk (Tray) – Short Leads	3.2 +0.3/–0.2	JH
	Bulk (Tray) – Long Leads	30 +5/–0	40
	Bulk (Tray) – Long Leads	25 +2/–1	50

Dimensions – Millimeters

Loose



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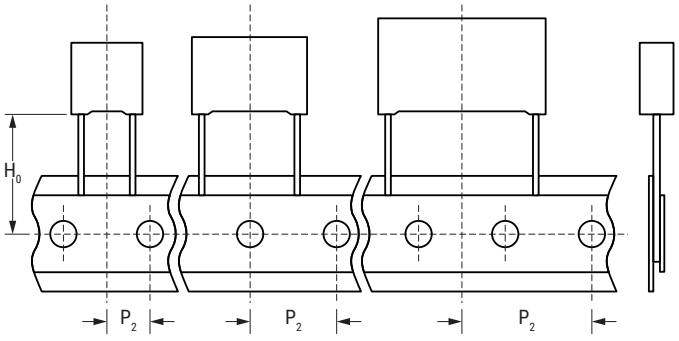
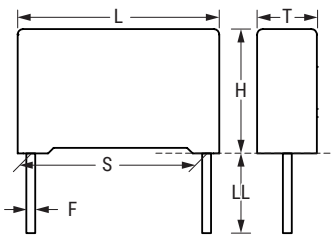


S		T		H		L		F	
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
7.5	±0.4	3.0	+0.1/–0.5	8.0	+0.1/–0.5	10.0	+0.2/–0.5	0.5	±0.05
7.5	±0.4	4.0	+0.1/–0.5	9.0	+0.1/–0.5	10.0	+0.2/–0.5	0.6	±0.05
7.5	±0.4	5.0	+0.1/–0.5	10.5	+0.1/–0.5	10.0	+0.2/–0.5	0.6	±0.05
7.5	±0.4	6.0	+0.1/–0.5	12.0	+0.1/–0.5	10.5	+0.2/–0.5	0.6	±0.05
10.0	±0.4	4.0	+0.2/–0.5	9.0	+0.1/–0.5	13.0	+0.2/–0.5	0.6	±0.05
10.0	±0.4	5.0	+0.2/–0.5	11.0	+0.1/–0.5	13.0	+0.2/–0.5	0.6	±0.05
10.0	±0.4	6.0	+0.2/–0.5	12.0	+0.1/–0.5	13.0	+0.2/–0.5	0.6	±0.05
15.0	±0.4	4.0	+0.2/–0.5	10.0	+0.1/–0.5	18.0	+0.3/–0.5	0.8	±0.05
15.0	±0.4	5.0	+0.2/–0.5	11.0	+0.1/–0.5	18.0	+0.3/–0.5	0.8	±0.05
15.0	±0.4	6.0	+0.2/–0.5	12.0	+0.1/–0.5	18.0	+0.3/–0.5	0.8	±0.05
15.0	±0.4	7.5	+0.2/–0.5	13.5	+0.1/–0.5	18.0	+0.5/–0.5	0.8	±0.05
15.0	±0.4	8.5	+0.2/–0.5	14.5	+0.1/–0.5	18.0	+0.5/–0.5	0.8	±0.05
15.0	±0.4	9.0	+0.2/–0.5	12.5	+0.1/–0.5	18.0	+0.5/–0.5	0.8	±0.05
15.0	±0.4	10.0	+0.2/–0.5	16.0	+0.1/–0.5	18.0	+0.5/–0.5	0.8	±0.05

Note: See Ordering Options Table for lead length (LL/Ho) options.

Dimensions – Millimeters cont.

Loose



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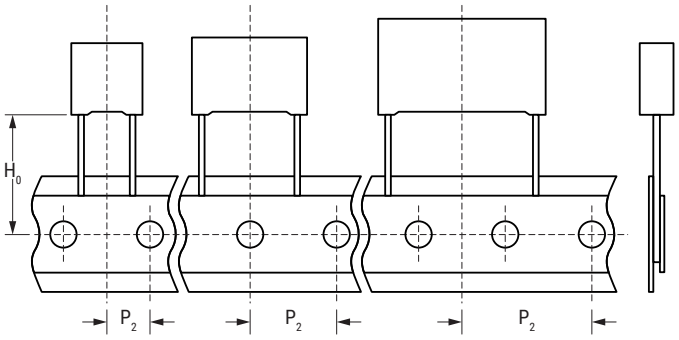


S		T		H		L		F	
Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
15.0	±0.4	11.0	+0.2/−0.5	19.0	+0.1/−0.5	18.0	+0.5/−0.5	0.8	±0.05
15.0	±0.4	13.0	+0.2/−0.5	12.0	+0.1/−0.5	18.0	+0.5/−0.5	0.8	±0.05
22.5	±0.4	6.0	+0.2/−0.5	15.0	+0.1/−0.5	26.5	+0.3/−0.5	0.8	±0.05
22.5	±0.4	7.0	+0.2/−0.5	16.0	+0.1/−0.5	26.5	+0.3/−0.5	0.8	±0.05
22.5	±0.4	8.5	+0.2/−0.5	17.0	+0.1/−0.5	26.5	+0.3/−0.5	0.8	±0.05
22.5	±0.4	10.0	+0.2/−0.5	18.5	+0.1/−0.5	26.5	+0.3/−0.5	0.8	±0.05
22.5	±0.4	11.0	+0.2/−0.5	20.0	+0.1/−0.5	26.5	+0.3/−0.5	0.8	±0.05
22.5	±0.4	13.0	+0.2/−0.5	22.0	+0.1/−0.5	26.5	+0.3/−0.5	0.8	±0.05
22.5	±0.4	14.5	+0.2/−0.5	29.5	+0.1/−0.5	26.5	+0.3/−0.5	0.8	±0.05
27.5	±0.4	9.0	+0.2/−0.7	17.0	+0.1/−0.7	32.0	+0.3/−0.7	0.8	±0.05
27.5	±0.4	11.0	+0.2/−0.7	20.0	+0.1/−0.7	32.0	+0.3/−0.7	0.8	±0.05
27.5	±0.4	13.0	+0.2/−0.7	22.0	+0.1/−0.7	32.0	+0.3/−0.7	0.8	±0.05
27.5	±0.4	13.0	+0.2/−0.7	25.0	+0.1/−0.7	32.0	+0.3/−0.7	0.8	±0.05
27.5	±0.4	14.0	+0.2/−0.7	28.0	+0.1/−0.7	32.0	+0.3/−0.7	0.8	±0.05
27.5	±0.4	16.0	+0.2/−0.7	30.0	+0.1/−0.7	32.0	+0.3/−0.7	0.8	±0.05
27.5	±0.4	18.0	+0.2/−0.7	33.0	+0.1/−0.7	32.0	+0.3/−0.7	0.8	±0.05
27.5	±0.4	22.0	+0.2/−0.7	37.0	+0.1/−0.7	32.0	+0.3/−0.7	0.8	±0.05
27.5	±0.4	24.0	+0.2/−0.7	15.0	+0.1/−0.7	32.0	+0.3/−0.7	0.8	±0.05
37.5	±0.4	11.0	+0.3/−0.7	22.0	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05
37.5	±0.4	13.0	+0.3/−0.7	24.0	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05
37.5	±0.4	16.0	+0.3/−0.7	28.5	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05
37.5	±0.4	19.0	+0.3/−0.7	32.0	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05
37.5	±0.4	20.0	+0.3/−0.7	40.0	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05
37.5	±0.4	24.0	+0.3/−0.7	44.0	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05
37.5	±0.4	24.0	+0.3/−0.7	15.0	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05
37.5	±0.4	24.0	+0.3/−0.7	19.0	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05
37.5	±0.4	30.0	+0.3/−0.7	45.0	+0.1/−0.7	41.5	+0.3/−0.7	1.0	±0.05

Note: See Ordering Options Table for lead length (LL/Ho) options.

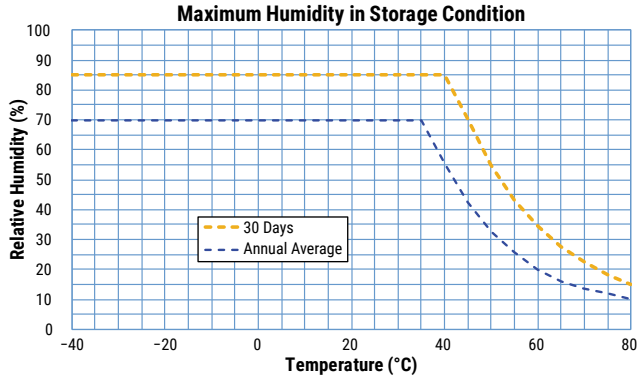
Performance Characteristics

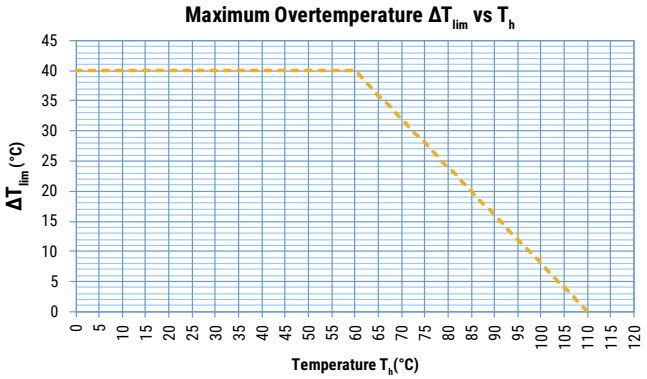
Dielectric	Polypropylene film							
Plates	Double sided metallized polyester film							
Winding	Non-inductive type							
Leads	Tinned wire							
Protection	Plastic case, thermosetting resin filled. Box material is solvent resistant and flame retardant according to UL94.							
Related Documents	IEC 60384–16							
Sections	1			2				
Rated Voltage V_R	250 VDC 180 VAC	400 VDC 250 VAC	630 VDC 250 VAC	630 VDC 400 VAC	1,000 VDC 400 VAC	1,000 VDC 600 VAC	1,600 VDC 650 VAC	2,000 VDC 700 VAC
Capacitance Range (µF)	0.0068– 12	0.0027 – 8.2	0.00068 – 0.012	0.0039 – 3.9	0.00022 – 0.0033	0.00047 – 2.2	0.0022 – 1.2	0.0001 – 0.56
Capacitance Values	E12 series (IEC 60063) measured at 1 kHz and +20±1°C							
Capacitance Tolerance	±2.5%, ±5%, ±10%							
Operating Temperature Range	–55°C to +110°C							
Rated Temperature T_R	+85°C for V_R (DC and AC)							
Voltage Derating	The following decreasing factor has to be applied on the rated voltage: +85°C to +110°C: 1.25% per °C for V_R (DC and AC)							
Climatic Category	55/110/56 IEC 60068–1							
Storage Conditions	Storage time: ≤ 24 months from the date marked on the label package							
	Average relative humidity per year ≤ 70%							
	RH ≤ 85% for 30 days randomly distributed throughout the year							
	Dew is absent							
	Temperature: –40 to 80°C (see "Maximum Humidity in Storage Conditions" graph below)							
Test Voltage	1.6 x V_R VDC for 2 seconds (between terminations) at +25°C ±5°C							
Capacitance Drift	Maximum 0.5% after a 2 year storage period at a temperature of +10°C to +40°C and a relative humidity of 40% to 60%							
Maximum Pulse Steepness	dV/dt according to Table 1. For working voltages lower than rated voltage ($V < V_R$), the specified dV/dt can be multiplied by the factor V_R/V.							
Reliability (Reference IEC 61709)	Operational life > 200,000 hours at 85°C							
	Failure rate ≤ 1 FIT, T = +40°C, V = 0.5 x V_R							
	Failure criteria: open or short circuit, cap. change > 10%, DF 2 times the catalog limits, IR < 0.005 x initial limit							
Temperature Coefficient	–(200±100) ppm/°C at 1 kHz							
Self-Inductance (Lead Length ~ 2 mm)	Lead Spacing (mm)	7.5	10	15	22.5	27.5	37.5	
	L (nH) ≈	8	9	10	16	18	20	
	Max 1 nH per 1 mm lead and capacitor length							

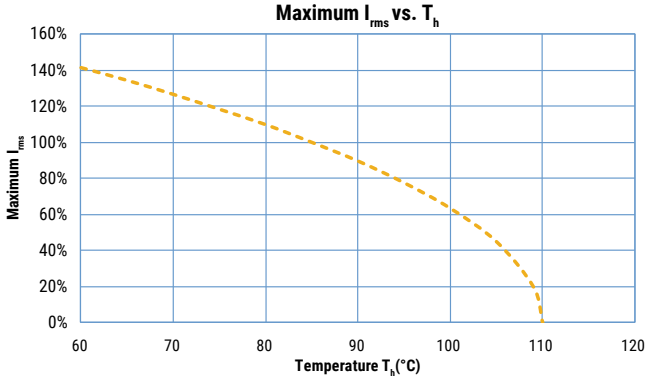
Performance Characteristics cont.

Dissipation Factor tanδ	Measured at 25°C ±5°C			
	Frequency	C ≤ 0.1 µF	0.1 µF < C ≤ 1.0 µF	C > 1µF
	1 kHz	≤ 0.03%	≤ 0.03%	≤ 0.04%
	10 kHz	≤ 0.04%	≤ 0.06%	–
	100 kHz	≤ 0.10%	–	–
Insulation Resistance	Measured at +25°C, 100 VDC 60 seconds			
	Minimum Values Between Terminals			
	C ≤ 0.33 µF		C > 0.33 µF	
	≥ 100,000 MΩ (≥ 500,000 MΩ)*		≥ 30,000 MΩ • µF (≥ 150,000 MΩ • µF)*	

** Typical value*







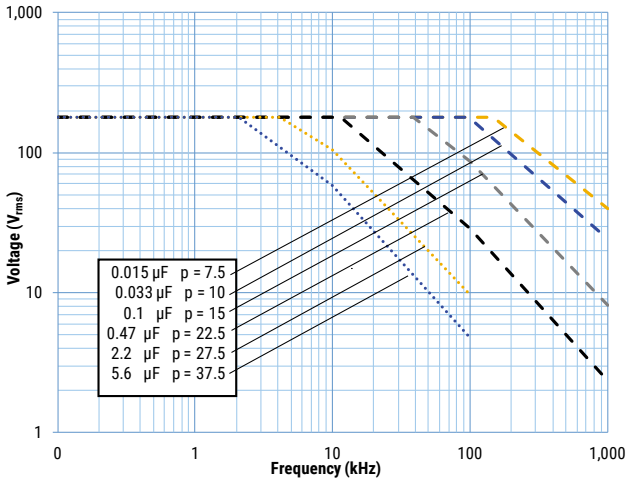
T_h is the maximum ambient temperature surrounding the capacitor or hottest contact point (e.g. tracks), whichever is higher, in the worst operation conditions in °C.

Qualification

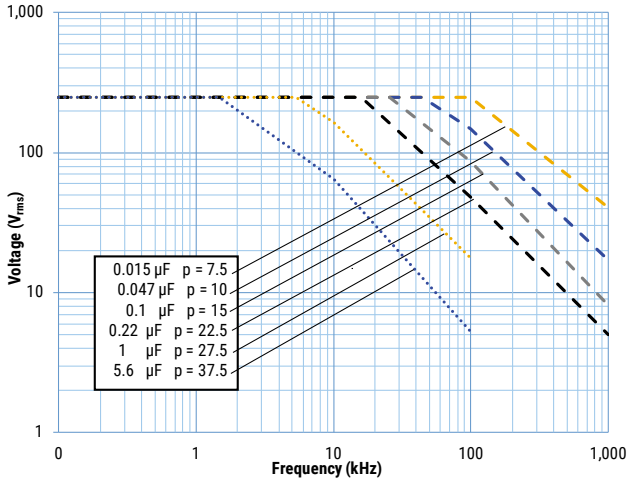
Automotive Grade products meet or exceed the requirements outlined by the Automotive Electronics Council. Details regarding test methods and conditions are referenced in document AEC–Q200, Stress Test Qualification for Passive Components. For additional information regarding the Automotive Electronics Council and AEC–Q200, please visit their website at www.aecouncil.com.

Maximum Voltage (V_{rms}) Versus Frequency (Sinusoidal Waveform/Th ≤ 85°C)

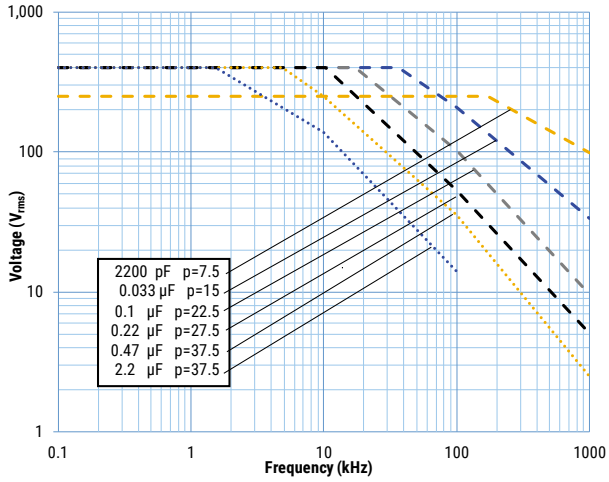
250 Vdc / 180 Vac



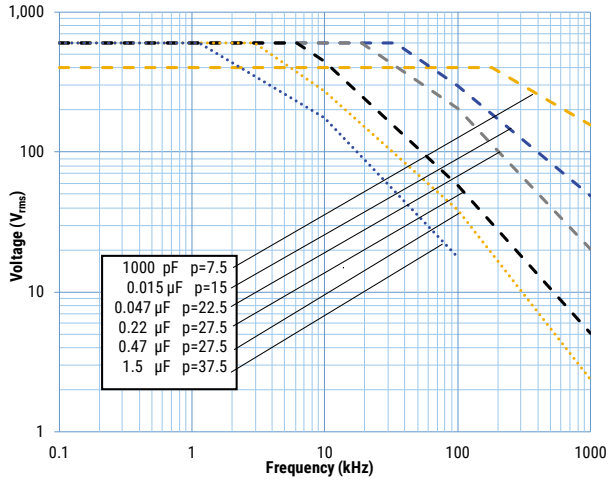
400 Vdc / 250 Vac



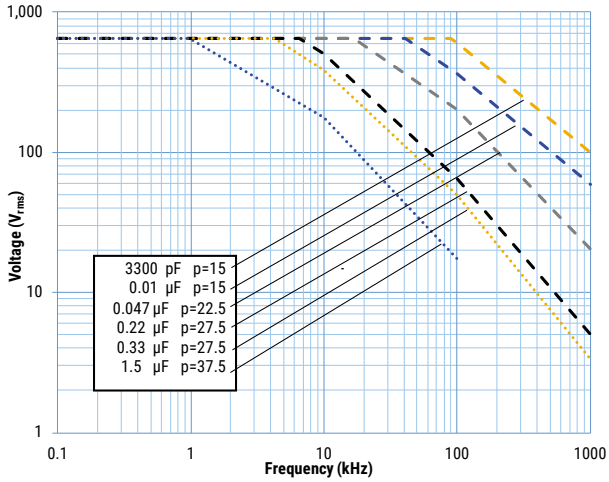
630 VDC/400 VAC



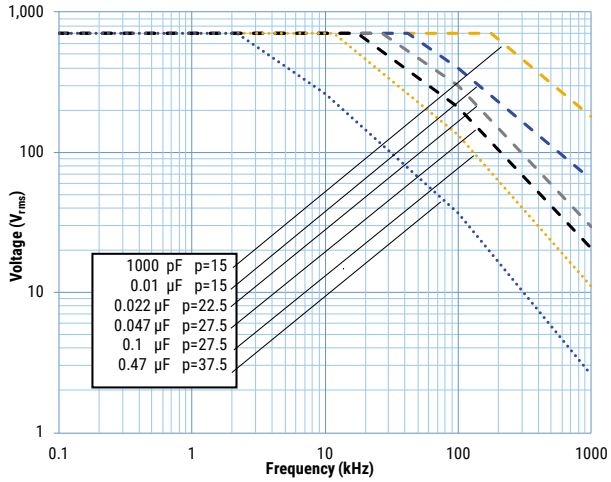
1,000 VDC/600 VAC



1,600 VDC/650 VAC

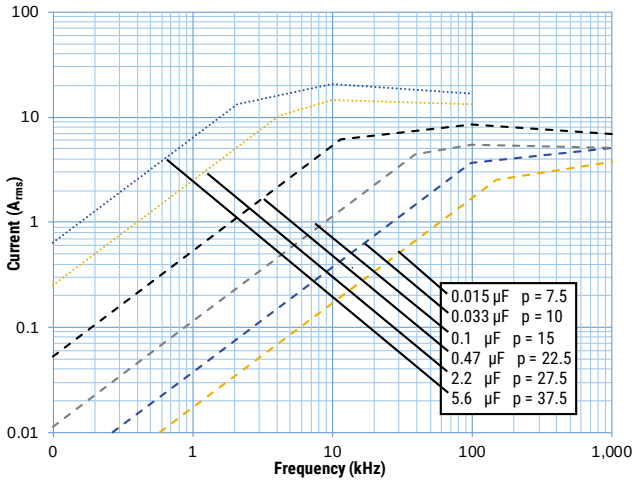


2,000 VDC/700 VAC

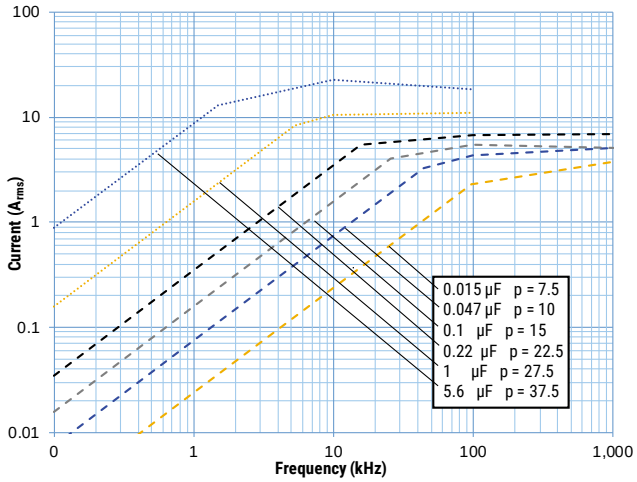


Maximum Current (I_{rms}) Versus Frequency (Sinusoidal Waveform/Th ≤ 85°C)

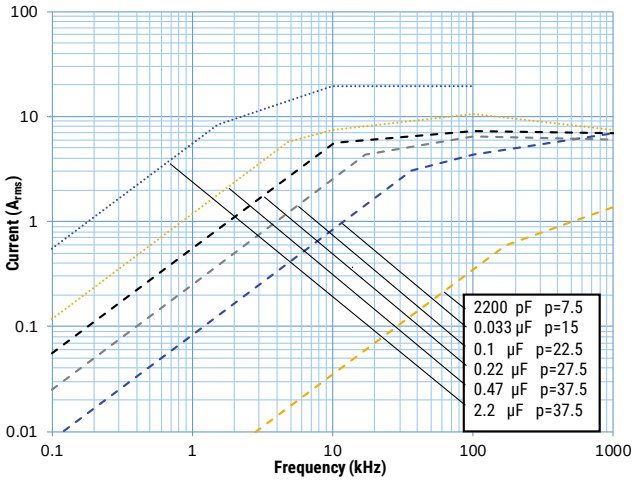
250 Vdc / 180 Vac



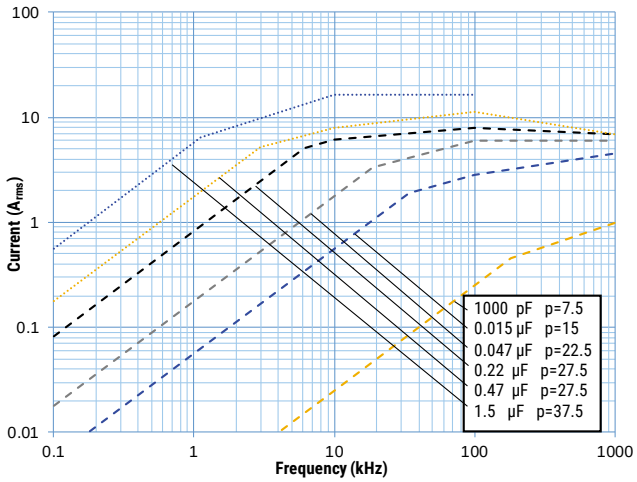
400 Vdc / 250 Vac



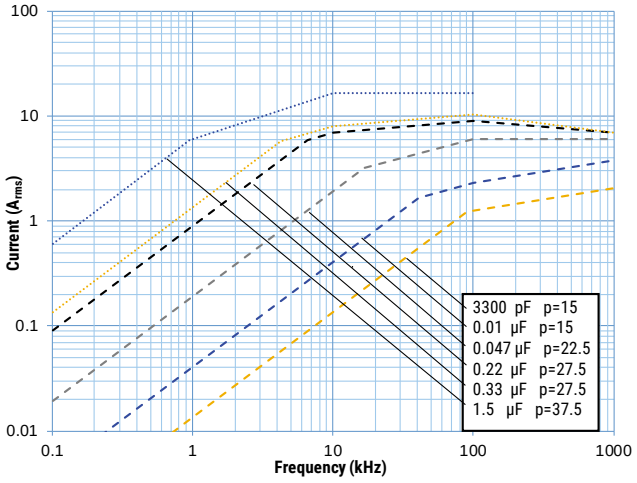
630 VDC/400 VAC



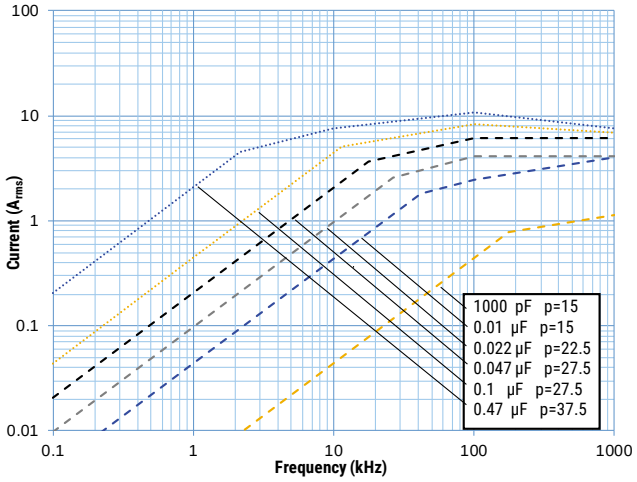
1,000 VDC/600 VAC



1,600 VDC/650 VAC



2,000 VDC/700 VAC



Environmental Test Data

Damp Heat, Steady State Test	Test Conditions:		Performances
	Temperature: Relative humidity (RH): Test duration:	+40°C ±2°C 93% ±2% 56 days	|Δ C/C| ≤ 2%, Δ tanδ ≤ 0.001 at 1 kHz IR after test ≥ 50% of initial limit
Endurance Test	**Test Conditions**		**Performances**
	Temperature: Voltage applied: Test duration:	+85°C ±2°C 1.25 x V_R (DC) 2,000 hours	|Δ C/C| ≤ 2%, Δ tanδ ≤ 0.001 at 10 kHz for C ≤ 1 µF Δ tanδ ≤ 0.001 at 1 kHz for C > 1 µF IR after test ≥ 50% of initial limit
Resistance to Soldering Heat Test	**Test Conditions**		**Performances**
	Solder bath temperature: Dipping time (with heat screen):	260°C ±5°C 10 seconds ±1 second	|Δ C/C| ≤ 1%, Δ tanδ ≤ 0.001 at 10 kHz for C ≤ 1 µF Δ tanδ ≤ 0.001 at 1 kHz for C > 1 µF IR after test ≥ initial limit

Environmental Compliance

All KEMET pulse capacitors are RoHS compliant.

Table 1 – Ratings & Part Number Reference

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	$I_{rms\ max}$ (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz 85°C A_{rms}	(°C/W)		
250	180	0.0068	3.0	8.0	10.0	7.5	1,100	550,000	7	8	94	0.8	98	76ID1680(1)30(2)	R76ID1680(1)30(2)
250	180	0.0082	3.0	8.0	10.0	7.5	1,100	550,000	9	8	78	0.9	98	76ID1820(1)30(2)	R76ID1820(1)30(2)
250	180	0.01	3.0	8.0	10.0	7.5	1,100	550,000	11	8	64	1.1	98	76ID2100(1)30(2)	R76ID2100(1)30(2)
250	180	0.012	4.0	9.0	10.0	7.5	1,100	550,000	13	8	53	1.4	88	76ID2120(1)40(2)	R76ID2120(1)40(2)
250	180	0.015	4.0	9.0	10.0	7.5	1,100	550,000	17	8	42	1.7	88	76ID2150(1)40(2)	R76ID2150(1)40(2)
250	180	0.018	4.0	9.0	10.0	7.5	1,100	550,000	20	8	35	2.0	88	76ID2180(1)40(2)	R76ID2180(1)40(2)
250	180	0.022	4.0	9.0	10.0	7.5	1,100	550,000	24	8	29	2.5	88	76ID2220(1)40(2)	R76ID2220(1)40(2)
250	180	0.027	5.0	10.5	10.0	7.5	1,100	550,000	30	8	24	3.1	78	76ID2270(1)40(2)	R76ID2270(1)40(2)
250	180	0.033	5.0	10.5	10.0	7.5	1,100	550,000	36	8	19	3.6	78	76ID2330(1)40(2)	R76ID2330(1)40(2)
250	180	0.039	6.0	12.0	10.5	7.5	1,100	550,000	43	8	16	4.2	69	76ID2390(1)30(2)	R76ID2390(1)30(2)
250	180	0.047	6.0	12.0	10.5	7.5	1,100	550,000	52	8	14	4.6	69	76ID2470(1)30(2)	R76ID2470(1)30(2)
250	180	0.027	4.0	9.0	13.0	10.0	1,000	500,000	27	9	24	3.1	79	76IF2270(1)30(2)	R76IF2270(1)30(2)
250	180	0.033	4.0	9.0	13.0	10.0	1,000	500,000	33	9	19	3.6	79	76IF2330(1)30(2)	R76IF2330(1)30(2)
250	180	0.039	4.0	9.0	13.0	10.0	1,000	500,000	39	9	16	3.9	79	76IF2390(1)30(2)	R76IF2390(1)30(2)
250	180	0.047	5.0	11.0	13.0	10.0	1,000	500,000	47	9	14	4.6	69	76IF2470(1)30(2)	R76IF2470(1)30(2)
250	180	0.056	5.0	11.0	13.0	10.0	1,000	500,000	56	9	20	3.8	69	76IF2560(1)30(2)	R76IF2560(1)30(2)
250	180	0.068	6.0	12.0	13.0	10.0	1,000	500,000	68	9	16	4.4	64	76IF2680(1)30(2)	R76IF2680(1)30(2)
250	180	0.082	6.0	12.0	13.0	10.0	1,000	500,000	82	9	14	4.8	64	76IF2820(1)30(2)	R76IF2820(1)30(2)
250	180	0.068	5.0	11.0	18.0	15.0	550	275,000	37	10	16	4.5	60	76II2680(1)30(2)	R76II2680(1)30(2)
250	180	0.082	5.0	11.0	18.0	15.0	550	275,000	45	10	14	4.9	60	76II2820(1)30(2)	R76II2820(1)30(2)
250	180	0.1	5.0	11.0	18.0	15.0	550	275,000	55	10	11	5.5	60	76II3100(1)30(2)	R76II3100(1)30(2)
250	180	0.12	6.0	12.0	18.0	15.0	550	275,000	66	10	13	5.2	56	76II3120(1)30(2)	R76II3120(1)30(2)
250	180	0.15	6.0	12.0	18.0	15.0	550	275,000	83	10	11	5.8	56	76II3150(1)30(2)	R76II3150(1)30(2)
250	180	0.18	7.5	13.5	18.0	15.0	550	275,000	99	10	9	6.7	51	76II3180(1)30(2)	R76II3180(1)30(2)
250	180	0.18	9.0	12.5	18.0	15.0	550	275,000	99	10	9	6.8	50	76II3180(1)70(2)	R76II3180(1)70(2)
250	180	0.22	7.5	13.5	18.0	15.0	550	275,000	121	10	7	7.4	51	76II3220(1)30(2)	R76II3220(1)30(2)
250	180	0.22	9.0	12.5	18.0	15.0	550	275,000	121	10	7	7.5	50	76II3220(1)70(2)	R76II3220(1)70(2)
250	180	0.27	8.5	14.5	18.0	15.0	550	275,000	149	10	6	8.4	48	76II3270(1)30(2)	R76II3270(1)30(2)
250	180	0.27	9.0	12.5	18.0	15.0	550	275,000	149	10	6	8.3	50	76II3270(1)70(2)	R76II3270(1)70(2)
250	180	0.33	10.0	16.0	18.0	15.0	550	275,000	182	10	5	9.7	44	76II3330(1)30(2)	R76II3330(1)30(2)
250	180	0.33	13.0	12.0	18.0	15.0	550	275,000	182	10	5	9.6	45	76II3330(1)70(2)	R76II3330(1)70(2)
250	180	0.39	10.0	16.0	18.0	15.0	550	275,000	215	10	4	10.5	44	76II3390(1)30(2)	R76II3390(1)30(2)
250	180	0.47	11.0	19.0	18.0	15.0	550	275,000	259	10	3	12.1	40	76II3470(1)30(2)	R76II3470(1)30(2)
250	180	0.22	6.0	15.0	26.5	22.5	300	150,000	66	16	11	6.5	43	76IN3220(1)00(2)	R76IN3220(1)00(2)
250	180	0.27	6.0	15.0	26.5	22.5	300	150,000	81	16	9	7.2	43	76IN3270(1)30(2)	R76IN3270(1)30(2)
250	180	0.33	6.0	15.0	26.5	22.5	300	150,000	99	16	7	8.0	43	76IN3330(1)30(2)	R76IN3330(1)30(2)
250	180	0.39	7.0	16.0	26.5	22.5	300	150,000	117	16	8	7.7	41	76IN3390(1)30(2)	R76IN3390(1)30(2)
250	180	0.47	7.0	16.0	26.5	22.5	300	150,000	141	16	7	8.5	41	76IN3470(1)30(2)	R76IN3470(1)30(2)
250	180	0.56	8.5	17.0	26.5	22.5	300	150,000	168	16	6	9.6	38	76IN3560(1)30(2)	R76IN3560(1)30(2)
250	180	0.68	10.0	18.5	26.5	22.5	300	150,000	204	16	4.7	10.9	36	76IN3680(1)30(2)	R76IN3680(1)30(2)
250	180	0.82	10.0	18.5	26.5	22.5	300	150,000	246	16	3.9	12.0	36	76IN3820(1)30(2)	R76IN3820(1)30(2)
250	180	1	11.0	20.0	26.5	22.5	300	150,000	300	16	5.6	10.3	34	76IN4100(1)30(2)	R76IN4100(1)30(2)
250	180	1.2	13.0	22.0	26.5	22.5	300	150,000	360	16	4.6	11.7	31	76IN4120(1)30(2)	R76IN4120(1)30(2)
250	180	1.5	14.5	29.5	26.5	22.5	300	150,000	450	16	3.7	14.1	27	76IN4150(1)30(2)	R76IN4150(1)30(2)
250	180	1.8	14.5	29.5	26.5	22.5	300	150,000	540	16	3.1	15.4	27	76IN4180(1)30(2)	R76IN4180(1)30(2)
250	180	0.82	9.0	17.0	32.0	27.5	200	100,000	164	18	6	9.9	35	76IR3820(1)30(2)	R76IR3820(1)30(2)
250	180	1	11.0	20.0	32.0	27.5	200	100,000	200	18	6	10.7	31	76IR4100(1)30(2)	R76IR4100(1)30(2)
250	180	1	24.0	15.0	32.0	27.5	200	100,000	200	18	6	11.5	27	76IR4100(1)L0(2)	R76IR4100(1)L0(2)
250	180	1.2	11.0	20.0	32.0	27.5	200	100,000	240	18	5.3	11.0	31	76IR4120(1)40(2)	R76IR4120(1)40(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz 85°C / $I_{rms\ max}$ (*)	(°C/W) / R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.

(2) H = 2.5% (only for C ≥ 1,000 pF), J = 5%, K = 10%

(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	$I_{rms\ max}$ (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz 85°C A_{rms}	(°C/W)		
250	180	1.2	24.0	15.0	32.0	27.5	200	100,000	240	18	5	11.8	27	76IR4120(1)L0(2)	R76IR4120(1)L0(2)
250	180	1.5	13.0	22.0	32.0	27.5	200	100,000	300	18	4.2	12.7	29	76IR4150(1)30(2)	R76IR4150(1)30(2)
250	180	1.5	24.0	15.0	32.0	27.5	200	100,000	300	18	4	13.2	27	76IR4150(1)L0(2)	R76IR4150(1)L0(2)
250	180	1.8	13.0	25.0	32.0	27.5	200	100,000	360	18	5.3	11.7	28	76IR4180(1)20(2)	R76IR4180(1)20(2)
250	180	1.8	24.0	15.0	32.0	27.5	200	100,000	360	18	5	11.8	27	76IR4180(1)L0(2)	R76IR4180(1)L0(2)
250	180	2.2	14.0	28.0	32.0	27.5	200	100,000	440	18	4.3	13.3	26	76IR4220(1)40(2)	R76IR4220(1)40(2)
250	180	2.7	18.0	33.0	32.0	27.5	200	100,000	540	18	7.1	11.1	23	76IR4270(1)30(2)	R76IR4270(1)30(2)
250	180	2.7	16.0	30.0	32.0	27.5	200	100,000	540	18	7.1	10.7	25	76IR4270(1)40(2)	R76IR4270(1)40(2)
250	180	3.3	18.0	33.0	32.0	27.5	200	100,000	660	18	5.8	12.3	23	76IR4330(1)30(2)	R76IR4330(1)30(2)
250	180	3.9	18.0	33.0	32.0	27.5	200	100,000	780	18	4.9	13.3	23	76IR4390(1)30(2)	R76IR4390(1)30(2)
250	180	4.7	22.0	37.0	32.0	27.5	200	100,000	940	18	4.1	15.4	21	76IR4470(1)30(2)	R76IR4470(1)30(2)
250	180	5.6	22.0	37.0	32.0	27.5	200	100,000	1,120	18	3.4	16.8	21	76IR4560(1)40(2)	R76IR4560(1)40(2)
250	180	1.2	11.0	22.0	41.5	37.5	100	50,000	120	20	5.3	11.8	27	76IW4120(1)30(2)	R76IW4120(1)30(2)
250	180	1.5	11.0	22.0	41.5	37.5	100	50,000	150	20	4.2	13.2	27	76IW4150(1)30(2)	R76IW4150(1)30(2)
250	180	1.5	24.0	15.0	41.5	37.5	100	50,000	150	20	4.2	13.9	24	76IW4150(1)L0(2)	R76IW4150(1)L0(2)
250	180	1.8	11.0	22.0	41.5	37.5	100	50,000	180	20	5.3	11.8	27	76IW4180(1)30(2)	R76IW4180(1)30(2)
250	180	1.8	24.0	15.0	41.5	37.5	100	50,000	180	20	5.3	12.4	24	76IW4180(1)L0(2)	R76IW4180(1)L0(2)
250	180	2.2	13.0	24.0	41.5	37.5	100	50,000	220	20	4.3	13.5	25	76IW4220(1)30(2)	R76IW4220(1)30(2)
250	180	2.2	24.0	15.0	41.5	37.5	100	50,000	220	20	4.3	13.7	24	76IW4220(1)L0(2)	R76IW4220(1)L0(2)
250	180	2.7	16.0	28.5	41.5	37.5	100	50,000	270	20	7.1	11.2	23	76IW4270(1)20(2)	R76IW4270(1)20(2)
250	180	2.7	24.0	19.0	41.5	37.5	100	50,000	270	20	7.1	11.1	23	76IW4270(1)L0(2)	R76IW4270(1)L0(2)
250	180	3.3	16.0	28.5	41.5	37.5	100	50,000	330	20	5.8	12.4	23	76IW4330(1)30(2)	R76IW4330(1)30(2)
250	180	3.3	24.0	19.0	41.5	37.5	100	50,000	330	20	5.8	12.3	23	76IW4330(1)L0(2)	R76IW4330(1)L0(2)
250	180	3.9	16.0	28.5	41.5	37.5	100	50,000	390	20	4.9	13.5	23	76IW4390(1)30(2)	R76IW4390(1)30(2)
250	180	4.7	19.0	32.0	41.5	37.5	100	50,000	470	20	4.1	15.4	21	76IW4470(1)30(2)	R76IW4470(1)30(2)
250	180	5.6	20.0	40.0	41.5	37.5	100	50,000	560	20	3.4	17.7	19	76IW4560(1)20(2)	R76IW4560(1)20(2)
250	180	6.8	20.0	40.0	41.5	37.5	100	50,000	680	20	7.0	12.3	19	76IW4680(1)30(2)	R76IW4680(1)30(2)
250	180	8.2	24.0	44.0	41.5	37.5	100	50,000	820	20	5.8	14.1	17	76IW4820(1)20(2)	R76IW4820(1)20(2)
250	180	10	24.0	44.0	41.5	37.5	100	50,000	1,000	20	4.8	15.6	17	76IW5100(1)30(2)	R76IW5100(1)30(2)
250	180	12	30.0	45.0	41.5	37.5	100	50,000	1,200	20	9.9	11.2	16	76IW5120(1)30(2)	R76IW5120(1)30(2)
400	250	0.0027	3.0	8.0	10.0	7.5	1,700	1,360,000	5	8	236	0.4	98	76MD1270(1)30(2)	R76MD1270(1)30(2)
400	250	0.0033	3.0	8.0	10.0	7.5	1,700	1,360,000	6	8	193	0.5	98	76MD1330(1)30(2)	R76MD1330(1)30(2)
400	250	0.0039	3.0	8.0	10.0	7.5	1,700	1,360,000	7	8	163	0.6	98	76MD1390(1)30(2)	R76MD1390(1)30(2)
400	250	0.0047	3.0	8.0	10.0	7.5	1,700	1,360,000	8	8	135	0.7	98	76MD1470(1)30(2)	R76MD1470(1)30(2)
400	250	0.0056	3.0	8.0	10.0	7.5	1,700	1,360,000	10	8	114	0.9	98	76MD1560(1)30(2)	R76MD1560(1)30(2)
400	250	0.0068	4.0	9.0	10.0	7.5	1,700	1,360,000	12	8	94	1.1	88	76MD1680(1)40(2)	R76MD1680(1)40(2)
400	250	0.0082	4.0	9.0	10.0	7.5	1,700	1,360,000	14	8	78	1.3	88	76MD1820(1)40(2)	R76MD1820(1)40(2)
400	250	0.01	4.0	9.0	10.0	7.5	1,700	1,360,000	17	8	64	1.6	88	76MD2100(1)40(2)	R76MD2100(1)40(2)
400	250	0.012	4.0	9.0	10.0	7.5	1,700	1,360,000	20	8	53	1.9	88	76MD2120(1)40(2)	R76MD2120(1)40(2)
400	250	0.015	5.0	10.5	10.0	7.5	1,700	1,360,000	26	8	42	2.4	78	76MD2150(1)40(2)	R76MD2150(1)40(2)
400	250	0.018	5.0	10.5	10.0	7.5	1,700	1,360,000	31	8	35	2.7	78	76MD2180(1)40(2)	R76MD2180(1)40(2)
400	250	0.022	6.0	12.0	10.5	7.5	1,700	1,360,000	37	8	29	3.2	69	76MD2220(1)30(2)	R76MD2220(1)30(2)
400	250	0.027	6.0	12.0	10.5	7.5	1,700	1,360,000	46	8	24	3.5	69	76MD2270(1)30(2)	R76MD2270(1)30(2)
400	250	0.01	4.0	9.0	13.0	10.0	1,500	1,200,000	15	9	64	1.6	79	76MF2100(1)00(2)	R76MF2100(1)00(2)
400	250	0.012	4.0	9.0	13.0	10.0	1,500	1,200,000	18	9	53	1.9	79	76MF2120(1)00(2)	R76MF2120(1)00(2)
400	250	0.015	4.0	9.0	13.0	10.0	1,500	1,200,000	23	9	42	2.4	79	76MF2150(1)30(2)	R76MF2150(1)30(2)
400	250	0.018	4.0	9.0	13.0	10.0	1,500	1,200,000	27	9	35	2.7	79	76MF2180(1)30(2)	R76MF2180(1)30(2)
400	250	0.022	4.0	9.0	13.0	10.0	1,500	1,200,000	33	9	29	3.0	79	76MF2220(1)30(2)	R76MF2220(1)30(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz 85°C $I_{rms\ max}$ (*)	(°C/W) R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) H = 2.5% (only for C ≥ 1,000 pF), J = 5%, K = 10%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	$I_{rms\ max}$ (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz 85°C A_{rms}	(°C/W)		
400	250	0.027	5.0	11.0	13.0	10.0	1,500	1,200,000	41	9	24	3.5	69	76MF2270(1)30(2)	R76MF2270(1)30(2)
400	250	0.027	4.0	9.0	13.0	10.0	1,500	1,200,000	41	9	24	3.3	79	76MF2270(1)50(2)	R76MF2270(1)50(2)
400	250	0.033	5.0	11.0	13.0	10.0	1,500	1,200,000	50	9	19	3.9	69	76MF2330(1)30(2)	R76MF2330(1)30(2)
400	250	0.039	5.0	11.0	13.0	10.0	1,500	1,200,000	59	9	16	4.2	69	76MF2390(1)50(2)	R76MF2390(1)50(2)
400	250	0.039	6.0	12.0	13.0	10.0	1,500	1,200,000	59	9	16	4.4	64	76MF2390(1)30(2)	R76MF2390(1)30(2)
400	250	0.047	5.0	11.0	13.0	10.0	1,500	1,200,000	71	9	14	4.6	69	76MF2470(1)50(2)	R76MF2470(1)50(2)
400	250	0.047	6.0	12.0	13.0	10.0	1,500	1,200,000	71	9	14	4.8	64	76MF2470(1)30(2)	R76MF2470(1)30(2)
400	250	0.056	6.0	12.0	13.0	10.0	1,500	1,200,000	84	9	20	4.0	64	76MF2560(1)50(2)	R76MF2560(1)50(2)
400	250	0.068	6.0	12.0	13.0	10.0	1,500	1,200,000	102	9	16	4.4	64	76MF2680(1)50(2)	R76MF2680(1)50(2)
400	250	0.033	5.0	11.0	18.0	15.0	900	720,000	30	10	19	4.1	60	76MI2330(1)00(2)	R76MI2330(1)00(2)
400	250	0.039	5.0	11.0	18.0	15.0	900	720,000	35	10	16	4.5	60	76MI2390(1)30(2)	R76MI2390(1)30(2)
400	250	0.047	5.0	11.0	18.0	15.0	900	720,000	42	10	14	5.0	60	76MI2470(1)30(2)	R76MI2470(1)30(2)
400	250	0.056	5.0	11.0	18.0	15.0	900	720,000	50	10	20	4.1	60	76MI2560(1)30(2)	R76MI2560(1)30(2)
400	250	0.068	6.0	12.0	18.0	15.0	900	720,000	61	10	16	4.7	56	76MI2680(1)30(2)	R76MI2680(1)30(2)
400	250	0.068	5.0	11.0	18.0	15.0	900	720,000	61	10	16	4.5	60	76MI2680(1)50(2)	R76MI2680(1)50(2)
400	250	0.082	6.0	12.0	18.0	15.0	900	720,000	74	10	14	5.1	56	76MI2820(1)30(2)	R76MI2820(1)30(2)
400	250	0.1	6.0	12.0	18.0	15.0	900	720,000	90	10	11	5.7	56	76MI3100(1)50(2)	R76MI3100(1)50(2)
400	250	0.1	7.5	13.5	18.0	15.0	900	720,000	90	10	11	6.0	51	76MI3100(1)30(2)	R76MI3100(1)30(2)
400	250	0.1	9.0	12.5	18.0	15.0	900	720,000	90	10	11	6.0	50	76MI3100(1)70(2)	R76MI3100(1)70(2)
400	250	0.12	7.5	13.5	18.0	15.0	900	720,000	108	10	13	5.5	51	76MI3120(1)30(2)	R76MI3120(1)30(2)
400	250	0.12	9.0	12.5	18.0	15.0	900	720,000	108	10	13	5.5	50	76MI3120(1)70(2)	R76MI3120(1)70(2)
400	250	0.15	7.5	13.5	18.0	15.0	900	720,000	135	10	11	6.1	51	76MI3150(1)50(2)	R76MI3150(1)50(2)
400	250	0.15	8.5	14.5	18.0	15.0	900	720,000	135	10	11	6.3	48	76MI3150(1)30(2)	R76MI3150(1)30(2)
400	250	0.15	13.0	12.0	18.0	15.0	900	720,000	135	10	11	6.5	45	76MI3150(1)70(2)	R76MI3150(1)70(2)
400	250	0.18	8.5	14.5	18.0	15.0	900	720,000	162	10	9	6.9	48	76MI3180(1)50(2)	R76MI3180(1)50(2)
400	250	0.18	10.0	16.0	18.0	15.0	900	720,000	162	10	9	7.2	44	76MI3180(1)30(2)	R76MI3180(1)30(2)
400	250	0.18	13.0	12.0	18.0	15.0	900	720,000	162	10	9	7.1	45	76MI3180(1)70(2)	R76MI3180(1)70(2)
400	250	0.22	10.0	16.0	18.0	15.0	900	720,000	198	10	7	7.9	44	76MI3220(1)30(2)	R76MI3220(1)30(2)
400	250	0.27	10.0	16.0	18.0	15.0	900	720,000	243	10	6	8.8	44	76MI3270(1)50(2)	R76MI3270(1)50(2)
400	250	0.27	11.0	19.0	18.0	15.0	900	720,000	243	10	6	9.2	40	76MI3270(1)30(2)	R76MI3270(1)30(2)
400	250	0.33	11.0	19.0	18.0	15.0	900	720,000	297	10	5	10.2	40	76MI3330(1)50(2)	R76MI3330(1)50(2)
400	250	0.39	11.0	19.0	18.0	15.0	900	720,000	351	10	4	11.0	40	76MI3390(1)50(2)	R76MI3390(1)50(2)
400	250	0.12	6.0	15.0	26.5	22.5	500	400,000	60	16	20	4.8	43	76MN3120(1)30(2)	R76MN3120(1)30(2)
400	250	0.15	6.0	15.0	26.5	22.5	500	400,000	75	16	16	5.4	43	76MN3150(1)30(2)	R76MN3150(1)30(2)
400	250	0.18	6.0	15.0	26.5	22.5	500	400,000	90	16	13	5.9	43	76MN3180(1)30(2)	R76MN3180(1)30(2)
400	250	0.22	7.0	16.0	26.5	22.5	500	400,000	110	16	11	6.7	41	76MN3220(1)30(2)	R76MN3220(1)30(2)
400	250	0.22	6.0	15.0	26.5	22.5	500	400,000	110	16	11	6.5	43	76MN3220(1)50(2)	R76MN3220(1)50(2)
400	250	0.27	8.5	17.0	26.5	22.5	500	400,000	135	16	9	7.7	38	76MN3270(1)30(2)	R76MN3270(1)30(2)
400	250	0.27	7.0	16.0	26.5	22.5	500	400,000	135	16	9	7.4	41	76MN3270(1)50(2)	R76MN3270(1)50(2)
400	250	0.33	8.5	17.0	26.5	22.5	500	400,000	165	16	7	8.5	38	76MN3330(1)30(2)	R76MN3330(1)30(2)
400	250	0.39	8.5	17.0	26.5	22.5	500	400,000	195	16	8	8.0	38	76MN3390(1)50(2)	R76MN3390(1)50(2)
400	250	0.39	10.0	18.5	26.5	22.5	500	400,000	195	16	8	8.3	36	76MN3390(1)30(2)	R76MN3390(1)30(2)
400	250	0.47	10.0	18.5	26.5	22.5	500	400,000	235	16	7	9.1	36	76MN3470(1)30(2)	R76MN3470(1)30(2)
400	250	0.56	10.0	18.5	26.5	22.5	500	400,000	280	16	6	9.9	36	76MN3560(1)50(2)	R76MN3560(1)50(2)
400	250	0.56	11.0	20.0	26.5	22.5	500	400,000	280	16	6	10.2	34	76MN3560(1)30(2)	R76MN3560(1)30(2)
400	250	0.68	11.0	20.0	26.5	22.5	500	400,000	340	16	5	11.2	34	76MN3680(1)50(2)	R76MN3680(1)50(2)
400	250	0.68	13.0	22.0	26.5	22.5	500	400,000	340	16	4.7	11.7	31	76MN3680(1)30(2)	R76MN3680(1)30(2)
400	250	0.82	13.0	22.0	26.5	22.5	500	400,000	410	16	3.9	12.8	31	76MN3820(1)50(2)	R76MN3820(1)50(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz 85°C / $I_{rms\ max}$ (*)	(°C/W) / R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) H = 2.5% (only for C ≥ 1,000 pF), J = 5%, K = 10%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	$I_{rms\ max}$ (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz 85°C A_{rms}	(°C/W)		
400	250	1	14.5	29.5	26.5	22.5	500	400,000	500	16	6	11.5	27	76MN4100(1)30(2)	R76MN4100(1)30(2)
400	250	0.39	9.0	17.0	32.0	27.5	300	240,000	117	18	8	8.4	35	76MR3390(1)30(2)	R76MR3390(1)30(2)
400	250	0.47	9.0	17.0	32.0	27.5	300	240,000	141	18	7	9.2	35	76MR3470(1)30(2)	R76MR3470(1)30(2)
400	250	0.56	11.0	20.0	32.0	27.5	300	240,000	168	18	6	10.6	31	76MR3560(1)30(2)	R76MR3560(1)30(2)
400	250	0.68	11.0	20.0	32.0	27.5	300	240,000	204	18	7	9.5	31	76MR3680(1)30(2)	R76MR3680(1)30(2)
400	250	0.68	24.0	15.0	32.0	27.5	300	240,000	204	18	7	10.2	27	76MR3680(1)L0(2)	R76MR3680(1)L0(2)
400	250	0.82	13.0	22.0	32.0	27.5	300	240,000	246	18	6	10.9	29	76MR3820(1)30(2)	R76MR3820(1)30(2)
400	250	0.82	24.0	15.0	32.0	27.5	300	240,000	246	18	6	11.3	27	76MR3820(1)L0(2)	R76MR3820(1)L0(2)
400	250	1	13.0	22.0	32.0	27.5	300	240,000	300	18	6	11.1	29	76MR4100(1)40(2)	R76MR4100(1)40(2)
400	250	1	24.0	15.0	32.0	27.5	300	240,000	300	18	6	11.5	27	76MR4100(1)L0(2)	R76MR4100(1)L0(2)
400	250	1.2	14.0	28.0	32.0	27.5	300	240,000	360	18	5	12.0	26	76MR4120(1)40(2)	R76MR4120(1)40(2)
400	250	1.2	24.0	15.0	32.0	27.5	300	240,000	360	18	5.3	11.8	27	76MR4120(1)L0(2)	R76MR4120(1)L0(2)
400	250	1.5	16.0	30.0	32.0	27.5	300	240,000	450	18	4.2	13.9	25	76MR4150(1)40(2)	R76MR4150(1)40(2)
400	250	1.5	18.0	33.0	32.0	27.5	300	240,000	450	18	4.2	14.3	23	76MR4150(1)30(2)	R76MR4150(1)30(2)
400	250	1.8	16.0	30.0	32.0	27.5	300	240,000	540	18	5.3	12.4	25	76MR4180(1)40(2)	R76MR4180(1)40(2)
400	250	1.8	18.0	33.0	32.0	27.5	300	240,000	540	18	5.3	12.8	23	76MR4180(1)30(2)	R76MR4180(1)30(2)
400	250	2.2	18.0	33.0	32.0	27.5	300	240,000	660	18	4.3	14.2	23	76MR4220(1)40(2)	R76MR4220(1)40(2)
400	250	2.2	22.0	37.0	32.0	27.5	300	240,000	660	18	4.3	14.9	21	76MR4220(1)30(2)	R76MR4220(1)30(2)
400	250	2.7	22.0	37.0	32.0	27.5	300	240,000	810	18	7.1	11.7	21	76MR4270(1)30(2)	R76MR4270(1)30(2)
400	250	1	11.0	22.0	41.5	37.5	180	144,000	180	20	6	11.5	27	76MW4100(1)30(2)	R76MW4100(1)30(2)
400	250	1	24.0	15.0	41.5	37.5	180	144,000	180	20	6	12.1	24	76MW4100(1)L0(2)	R76MW4100(1)L0(2)
400	250	1.2	13.0	24.0	41.5	37.5	180	144,000	216	20	5	12.2	25	76MW4120(1)30(2)	R76MW4120(1)30(2)
400	250	1.2	24.0	15.0	41.5	37.5	180	144,000	216	20	5	12.4	24	76MW4120(1)L0O2)	R76MW4120(1)L0O2)
400	250	1.5	13.0	24.0	41.5	37.5	180	144,000	270	20	4	13.7	25	76MW4150(1)30(2)	R76MW4150(1)30(2)
400	250	1.5	24.0	15.0	41.5	37.5	180	144,000	270	20	4	13.9	24	76MW4150(1)L0(2)	R76MW4150(1)L0(2)
400	250	1.8	16.0	28.5	41.5	37.5	180	144,000	324	20	5	12.9	23	76MW4180(1)30(2)	R76MW4180(1)30(2)
400	250	1.8	24.0	19.0	41.5	37.5	180	144,000	324	20	5.3	12.8	23	76MW4180(1)L0(2)	R76MW4180(1)L0(2)
400	250	2.2	16.0	28.5	41.5	37.5	180	144,000	396	20	4.3	14.3	23	76MW4220(1)30(2)	R76MW4220(1)30(2)
400	250	2.2	19.0	32.0	41.5	37.5	180	144,000	396	20	4.3	14.9	21	76MW4220(1)30(2)	R76MW4220(1)30(2)
400	250	2.2	24.0	19.0	41.5	37.5	180	144,000	396	20	4.3	14.2	23	76MW4220(1)L0(2)	R76MW4220(1)L0(2)
400	250	2.7	19.0	32.0	41.5	37.5	180	144,000	486	20	7.1	11.7	21	76MW4270(1)30(2)	R76MW4270(1)30(2)
400	250	3.3	19.0	32.0	41.5	37.5	180	144,000	594	20	5.8	12.9	21	76MW4330(1)30(2)	R76MW4330(1)30(2)
400	250	3.9	20.0	40.0	41.5	37.5	180	144,000	702	20	4.9	14.8	19	76MW4390(1)30(2)	R76MW4390(1)30(2)
400	250	4.7	20.0	40.0	41.5	37.5	180	144,000	846	20	4.1	16.2	19	76MW4470(1)30(2)	R76MW4470(1)30(2)
400	250	5.6	24.0	44.0	41.5	37.5	180	144,000	1,008	20	3.4	18.4	17	76MW4560(1)30(2)	R76MW4560(1)30(2)
400	250	6.8	30.0	45.0	41.5	37.5	180	144,000	1,224	20	7.0	13.3	16	76MW4680(1)30(2)	R76MW4680(1)30(2)
400	250	8.2	30.0	45.0	41.5	37.5	180	144,000	1,476	20	5.8	14.6	16	76MW4820(1)30(2)	R76MW4820(1)30(2)
630	250	0.00068	3.0	8.0	10.0	7.5	2,800	3,528,000	2	8	936	0.1	98	76PD0680(1)00(2)	R76PD0680(1)00(2)
630	250	0.00082	3.0	8.0	10.0	7.5	2,800	3,528,000	2	8	776	0.1	98	76PD0820(1)00(2)	R76PD0820(1)00(2)
630	250	0.001	3.0	8.0	10.0	7.5	2,800	3,528,000	3	8	637	0.2	98	76PD1100(1)00(2)	R76PD1100(1)00(2)
630	250	0.0012	3.0	8.0	10.0	7.5	2,800	3,528,000	3	8	531	0.2	98	76PD1120(1)00(2)	R76PD1120(1)00(2)
630	250	0.0015	3.0	8.0	10.0	7.5	2,800	3,528,000	4	8	424	0.2	98	76PD1150(1)00(2)	R76PD1150(1)00(2)
630	250	0.0018	3.0	8.0	10.0	7.5	2,800	3,528,000	5	8	354	0.3	98	76PD1180(1)00(2)	R76PD1180(1)00(2)
630	250	0.0022	3.0	8.0	10.0	7.5	2,800	3,528,000	6	8	289	0.3	98	76PD1220(1)00(2)	R76PD1220(1)00(2)
630	250	0.0027	4.0	9.0	10.0	7.5	2,800	3,528,000	8	8	236	0.4	88	76PD1270(1)40(2)	R76PD1270(1)40(2)
630	250	0.0033	4.0	9.0	10.0	7.5	2,800	3,528,000	9	8	193	0.5	88	76PD1330(1)40(2)	R76PD1330(1)40(2)
630	250	0.0039	4.0	9.0	10.0	7.5	2,800	3,528,000	11	8	163	0.6	88	76PD1390(1)40(2)	R76PD1390(1)40(2)
630	250	0.0047	4.0	9.0	10.0	7.5	2,800	3,528,000	13	8	135	0.7	88	76PD1470(1)40(2)	R76PD1470(1)40(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz 85°C $I_{rms\ max}$ (*)	(°C/W) R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) H = 2.5% (only for C ≥ 1,000 pF), J = 5%, K = 10%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	$I_{rms\ max}$ (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz 85°C A_{rms}	(°C/W)		
630	250	0.0056	4.0	9.0	10.0	7.5	2,800	3,528,000	16	8	114	0.9	88	76PD1560(1)40(2)	R76PD1560(1)40(2)
630	250	0.0068	5.0	10.5	10.0	7.5	2,800	3,528,000	19	8	94	1.1	78	76PD1680(1)40(2)	R76PD1680(1)40(2)
630	250	0.0082	5.0	10.5	10.0	7.5	2,800	3,528,000	23	8	78	1.3	78	76PD1820(1)40(2)	R76PD1820(1)40(2)
630	250	0.01	6.0	12.0	10.5	7.5	2,800	3,528,000	28	8	64	1.6	69	76PD2100(1)30(2)	R76PD2100(1)30(2)
630	250	0.012	6.0	12.0	10.5	7.5	2,800	3,528,000	34	8	53	1.9	69	76PD2120(1)30(2)	R76PD2120(1)30(2)
630	400	0.0033	4.0	9.0	13.0	10.0	4,000	5,040,000	13	9	193	0.8	79	76PF1330(1)00(2)	R76PF1330(1)00(2)
630	400	0.0039	4.0	9.0	13.0	10.0	4,000	5,040,000	16	9	163	1.0	79	76PF1390(1)00(2)	R76PF1390(1)00(2)
630	400	0.0047	4.0	9.0	13.0	10.0	4,000	5,040,000	19	9	135	1.2	79	76PF1470(1)00(2)	R76PF1470(1)00(2)
630	400	0.0056	4.0	9.0	13.0	10.0	4,000	5,040,000	22	9	114	1.4	79	76PF1560(1)00(2)	R76PF1560(1)00(2)
630	400	0.0068	4.0	9.0	13.0	10.0	4,000	5,040,000	27	9	94	1.6	79	76PF1680(1)00(2)	R76PF1680(1)00(2)
630	400	0.0082	4.0	9.0	13.0	10.0	4,000	5,040,000	33	9	78	1.8	79	76PF1820(1)00(2)	R76PF1820(1)00(2)
630	400	0.01	4.0	9.0	13.0	10.0	4,000	5,040,000	40	9	64	2.0	79	76PF2100(1)50(2)	R76PF2100(1)50(2)
630	400	0.01	5.0	11.0	13.0	10.0	4,000	5,040,000	40	9	64	2.1	69	76PF2100(1)30(2)	R76PF2100(1)30(2)
630	400	0.012	5.0	11.0	13.0	10.0	4,000	5,040,000	48	9	53	2.3	69	76PF2120(1)30(2)	R76PF2120(1)30(2)
630	400	0.015	5.0	11.0	13.0	10.0	4,000	5,040,000	60	9	42	2.6	69	76PF2150(1)50(2)	R76PF2150(1)50(2)
630	400	0.015	6.0	12.0	13.0	10.0	4,000	5,040,000	60	9	42	2.7	64	76PF2150(1)30(2)	R76PF2150(1)30(2)
630	400	0.018	5.0	11.0	13.0	10.0	4,000	5,040,000	72	9	35	2.9	69	76PF2180(1)50(2)	R76PF2180(1)50(2)
630	400	0.018	6.0	12.0	13.0	10.0	4,000	5,040,000	72	9	35	3.0	64	76PF2180(1)30(2)	R76PF2180(1)30(2)
630	400	0.022	6.0	12.0	13.0	10.0	4,000	5,040,000	88	9	29	3.3	64	76PF2220(1)30(2)	R76PF2220(1)30(2)
630	400	0.027	6.0	12.0	13.0	10.0	4,000	5,040,000	108	9	24	3.6	64	76PF2270(1)50(2)	R76PF2270(1)50(2)
630	400	0.012	5.0	11.0	18.0	15.0	3,000	3,780,000	36	10	53	2.5	60	76PI2120(1)00(2)	R76PI2120(1)00(2)
630	400	0.015	5.0	11.0	18.0	15.0	3,000	3,780,000	45	10	42	2.8	60	76PI2150(1)00(2)	R76PI2150(1)00(2)
630	400	0.018	5.0	11.0	18.0	15.0	3,000	3,780,000	54	10	35	3.1	60	76PI2180(1)00(2)	R76PI2180(1)00(2)
630	400	0.022	5.0	11.0	18.0	15.0	3,000	3,780,000	66	10	29	3.4	60	76PI2220(1)30(2)	R76PI2220(1)30(2)
630	400	0.027	5.0	11.0	18.0	15.0	3,000	3,780,000	81	10	24	3.8	60	76PI2270(1)30(2)	R76PI2270(1)30(2)
630	400	0.033	6.0	12.0	18.0	15.0	3,000	3,780,000	99	10	19	4.3	56	76PI2330(1)30(2)	R76PI2330(1)30(2)
630	400	0.033	5.0	11.0	18.0	15.0	3,000	3,780,000	99	10	19	4.1	60	76PI2330(1)50(2)	R76PI2330(1)50(2)
630	400	0.039	6.0	12.0	18.0	15.0	3,000	3,780,000	117	10	16	4.7	56	76PI2390(1)30(2)	R76PI2390(1)30(2)
630	400	0.047	6.0	12.0	18.0	15.0	3,000	3,780,000	141	10	14	5.1	56	76PI2470(1)50(2)	R76PI2470(1)50(2)
630	400	0.047	7.5	13.5	18.0	15.0	3,000	3,780,000	141	10	14	5.4	51	76PI2470(1)30(2)	R76PI2470(1)30(2)
630	400	0.047	9.0	12.5	18.0	15.0	3,000	3,780,000	141	10	14	5.5	50	76PI2470(1)70(2)	R76PI2470(1)70(2)
630	400	0.056	7.5	13.5	18.0	15.0	3,000	3,780,000	168	10	20	4.5	51	76PI2560(1)30(2)	R76PI2560(1)30(2)
630	400	0.056	9.0	12.5	18.0	15.0	3,000	3,780,000	168	10	20	4.5	50	76PI2560(1)70(2)	R76PI2560(1)70(2)
630	400	0.068	7.5	13.5	18.0	15.0	3,000	3,780,000	204	10	16	4.9	51	76PI2680(1)50(2)	R76PI2680(1)50(2)
630	400	0.068	8.5	14.5	18.0	15.0	3,000	3,780,000	204	10	16	5.1	48	76PI2680(1)30(2)	R76PI2680(1)30(2)
630	400	0.068	9.0	12.5	18.0	15.0	3,000	3,780,000	204	10	16	5.0	50	76PI2680(1)70(2)	R76PI2680(1)70(2)
630	400	0.082	7.5	13.5	18.0	15.0	3,000	3,780,000	246	10	14	5.4	51	76PI2820(1)50(2)	R76PI2820(1)50(2)
630	400	0.082	8.5	14.5	18.0	15.0	3,000	3,780,000	246	10	14	5.6	48	76PI2820(1)30(2)	R76PI2820(1)30(2)
630	400	0.082	13.0	12.0	18.0	15.0	3,000	3,780,000	246	10	14	5.7	45	76PI2820(1)70(2)	R76PI2820(1)70(2)
630	400	0.1	8.5	14.5	18.0	15.0	3,000	3,780,000	300	10	11	6.1	48	76PI3100(1)50(2)	R76PI3100(1)50(2)
630	400	0.1	10.0	16.0	18.0	15.0	3,000	3,780,000	300	10	11	6.4	44	76PI3100(1)30(2)	R76PI3100(1)30(2)
630	400	0.12	10.0	16.0	18.0	15.0	3,000	3,780,000	360	10	13	5.8	44	76PI3120(1)50(2)	R76PI3120(1)50(2)
630	400	0.12	11.0	19.0	18.0	15.0	3,000	3,780,000	360	10	13	6.1	40	76PI3120(1)30(2)	R76PI3120(1)30(2)
630	400	0.047	6.0	15.0	26.5	22.5	1,500	1,890,000	71	16	14	5.8	43	76PN2470(1)00(2)	R76PN2470(1)00(2)
630	400	0.056	6.0	15.0	26.5	22.5	1,500	1,890,000	84	16	20	4.8	43	76PN2560(1)00(2)	R76PN2560(1)00(2)
630	400	0.068	6.0	15.0	26.5	22.5	1,500	1,890,000	102	16	16	5.3	43	76PN2680(1)00(2)	R76PN2680(1)00(2)
630	400	0.082	6.0	15.0	26.5	22.5	1,500	1,890,000	123	16	14	5.8	43	76PN2820(1)30(2)	R76PN2820(1)30(2)
630	400	0.1	6.0	15.0	26.5	22.5	1,500	1,890,000	150	16	11	6.4	43	76PN3100(1)30(2)	R76PN3100(1)30(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz 85°C / $I_{rms\ max}$ (*)	(°C/W) / R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) H = 2.5% (only for C ≥ 1,000 pF), J = 5%, K = 10%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	$I_{rms\ max}$ (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz 85°C A_{rms}	(°C/W)		
630	400	0.12	6.0	15.0	26.5	22.5	1,500	1,890,000	180	16	20	4.8	43	76PN3120(1)50(2)	R76PN3120(1)50(2)
630	400	0.12	7.0	16.0	26.5	22.5	1,500	1,890,000	180	16	20	4.9	41	76PN3120(1)30(2)	R76PN3120(1)30(2)
630	400	0.15	7.0	16.0	26.5	22.5	1,500	1,890,000	225	16	16	5.5	41	76PN3150(1)50(2)	R76PN3150(1)50(2)
630	400	0.15	8.5	17.0	26.5	22.5	1,500	1,890,000	225	16	16	5.7	38	76PN3150(1)30(2)	R76PN3150(1)30(2)
630	400	0.18	8.5	17.0	26.5	22.5	1,500	1,890,000	270	16	13	6.3	38	76PN3180(1)30(2)	R76PN3180(1)30(2)
630	400	0.22	8.5	17.0	26.5	22.5	1,500	1,890,000	330	16	11	6.9	38	76PN3220(1)50(2)	R76PN3220(1)50(2)
630	400	0.22	10.0	18.5	26.5	22.5	1,500	1,890,000	330	16	11	7.2	36	76PN3220(1)30(2)	R76PN3220(1)30(2)
630	400	0.27	10.0	18.5	26.5	22.5	1,500	1,890,000	405	16	9	7.9	36	76PN3270(1)50(2)	R76PN3270(1)50(2)
630	400	0.27	11.0	20.0	26.5	22.5	1,500	1,890,000	405	16	9	8.2	34	76PN3270(1)30(2)	R76PN3270(1)30(2)
630	400	0.33	11.0	20.0	26.5	22.5	1,500	1,890,000	495	16	7	9.0	34	76PN3330(1)30(2)	R76PN3330(1)30(2)
630	400	0.39	11.0	20.0	26.5	22.5	1,500	1,890,000	585	16	8	8.5	34	76PN3390(1)50(2)	R76PN3390(1)50(2)
630	400	0.39	13.0	22.0	26.5	22.5	1,500	1,890,000	585	16	8	8.8	31	76PN3390(1)30(2)	R76PN3390(1)30(2)
630	400	0.47	13.0	22.0	26.5	22.5	1,500	1,890,000	705	16	7	9.7	31	76PN3470(1)50(2)	R76PN3470(1)50(2)
630	400	0.56	14.5	29.5	26.5	22.5	1,500	1,890,000	840	16	6	11.4	27	76PN3560(1)30(2)	R76PN3560(1)30(2)
630	400	0.15	9.0	17.0	32.0	27.5	900	1,134,000	135	18	16	6.0	35	76PR3150(1)30(2)	R76PR3150(1)30(2)
630	400	0.18	9.0	17.0	32.0	27.5	900	1,134,000	162	18	13	6.6	35	76PR3180(1)30(2)	R76PR3180(1)30(2)
630	400	0.22	9.0	17.0	32.0	27.5	900	1,134,000	198	18	11	7.3	35	76PR3220(1)30(2)	R76PR3220(1)30(2)
630	400	0.27	9.0	17.0	32.0	27.5	900	1,134,000	243	18	9	8.0	35	76PR3270(1)30(2)	R76PR3270(1)30(2)
630	400	0.33	11.0	20.0	32.0	27.5	900	1,134,000	297	18	7	9.4	31	76PR3330(1)40(2)	R76PR3330(1)40(2)
630	400	0.39	11.0	20.0	32.0	27.5	900	1,134,000	351	18	8	8.8	31	76PR3390(1)30(2)	R76PR3390(1)30(2)
630	400	0.39	24.0	15.0	32.0	27.5	900	1,134,000	351	18	8	9.5	27	76PR3390(1)L0(2)	R76PR3390(1)L0(2)
630	400	0.47	13.0	22.0	32.0	27.5	900	1,134,000	423	18	7	10.1	29	76PR3470(1)30(2)	R76PR3470(1)30(2)
630	400	0.47	24.0	15.0	32.0	27.5	900	1,134,000	423	18	7	10.4	27	76PR3470(1)L0(2)	R76PR3470(1)L0(2)
630	400	0.56	13.0	22.0	32.0	27.5	900	1,134,000	504	18	6	11.0	29	76PR3560(1)30(2)	R76PR3560(1)30(2)
630	400	0.56	24.0	15.0	32.0	27.5	900	1,134,000	504	18	6	11.4	27	76PR3560(1)L0(2)	R76PR3560(1)L0(2)
630	400	0.68	13.0	25.0	32.0	27.5	900	1,134,000	612	18	7	10.1	28	76PR3680(1)40(2)	R76PR3680(1)40(2)
630	400	0.68	24.0	15.0	32.0	27.5	900	1,134,000	612	18	7	10.2	27	76PR3680(1)L0(2)	R76PR3680(1)L0(2)
630	400	0.82	14.0	28.0	32.0	27.5	900	1,134,000	738	18	6	11.5	26	76PR3820(1)30(2)	R76PR3820(1)30(2)
630	400	1	16.0	30.0	32.0	27.5	900	1,134,000	900	18	6	12.1	25	76PR4100(1)40(2)	R76PR4100(1)40(2)
630	400	1	18.0	33.0	32.0	27.5	900	1,134,000	900	18	5.6	12.5	23	76PR4100(1)30(2)	R76PR4100(1)30(2)
630	400	1.2	18.0	33.0	32.0	27.5	900	1,134,000	1,080	18	5.3	12.8	23	76PR4120(1)30(2)	R76PR4120(1)30(2)
630	400	1.5	22.0	37.0	32.0	27.5	900	1,134,000	1,350	18	4.2	15.1	21	76PR4150(1)30(2)	R76PR4150(1)30(2)
630	400	1.8	22.0	37.0	32.0	27.5	900	1,134,000	1,620	18	5.3	13.5	21	76PR4180(1)30(2)	R76PR4180(1)30(2)
630	400	0.33	11.0	22.0	41.5	37.5	450	567,000	149	20	7	10.1	27	76PW3330(1)30(2)	R76PW3330(1)30(2)
630	400	0.39	11.0	22.0	41.5	37.5	450	567,000	176	20	8	9.5	27	76PW3390(1)30(2)	R76PW3390(1)30(2)
630	400	0.47	11.0	22.0	41.5	37.5	450	567,000	212	20	7	10.4	27	76PW3470(1)30(2)	R76PW3470(1)30(2)
630	400	0.56	11.0	22.0	41.5	37.5	450	567,000	252	20	6	11.4	27	76PW3560(1)30(2)	R76PW3560(1)30(2)
630	400	0.68	11.0	22.0	41.5	37.5	450	567,000	306	20	7	10.3	27	76PW3680(1)30(2)	R76PW3680(1)30(2)
630	400	0.68	24.0	15.0	41.5	37.5	450	567,000	306	20	7	10.8	24	76PW3680(1)L0(2)	R76PW3680(1)L0(2)
630	400	0.82	13.0	24.0	41.5	37.5	450	567,000	369	20	6	11.7	25	76PW3820(1)30(2)	R76PW3820(1)30(2)
630	400	0.82	24.0	15.0	41.5	37.5	450	567,000	369	20	6	11.9	24	76PW3820(1)L0(2)	R76PW3820(1)L0(2)
630	400	1	16.0	28.5	41.5	37.5	450	567,000	450	20	6	12.6	23	76PW4100(1)30(2)	R76PW4100(1)30(2)
630	400	1	24.0	15.0	41.5	37.5	450	567,000	450	20	6	12.1	24	76PW4100(1)L0(2)	R76PW4100(1)L0(2)
630	400	1.2	16.0	28.5	41.5	37.5	450	567,000	540	20	5	12.9	23	76PW4120(1)30(2)	R76PW4120(1)30(2)
630	400	1.2	24.0	19.0	41.5	37.5	450	567,000	540	20	5	12.8	23	76PW4120(1)L0(2)	R76PW4120(1)L0(2)
630	400	1.5	16.0	28.5	41.5	37.5	450	567,000	675	20	4	14.5	23	76PW4150(1)30(2)	R76PW4150(1)30(2)
630	400	1.5	24.0	19.0	41.5	37.5	450	567,000	675	20	4	14.4	23	76PW4150(1)L0(2)	R76PW4150(1)L0(2)
630	400	1.8	19.0	32.0	41.5	37.5	450	567,000	810	20	5.3	13.5	21	76PW4180(1)30(2)	R76PW4180(1)30(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz 85°C / $I_{rms\ max}$ (*)	(°C/W) / R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) H = 2.5% (only for C ≥ 1,000 pF), J = 5%, K = 10%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	$I_{rms\ max}$ (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz 85°C A_{rms}	(°C/W)		
630	400	2.2	20.0	40.0	41.5	37.5	450	567,000	990	20	4.3	15.7	19	76PW4220(1)30(2)	R76PW4220(1)30(2)
630	400	2.7	20.0	40.0	41.5	37.5	450	567,000	1,215	20	7.1	12.3	19	76PW4270(1)30(2)	R76PW4270(1)30(2)
630	400	3.3	24.0	44.0	41.5	37.5	450	567,000	1,485	20	5.8	14.2	17	76PW4330(1)30(2)	R76PW4330(1)30(2)
630	400	3.9	30.0	45.0	41.5	37.5	450	567,000	1,755	20	4.9	16.0	16	76PW4390(1)30(2)	R76PW4390(1)30(2)
1,000	400	0.00022	3.0	8.0	10.0	7.5	6,000	12,000,000	1	8	2,894	0.1	98	76QD0220(1)00(2)	R76QD0220(1)00(2)
1,000	400	0.00027	3.0	8.0	10.0	7.5	6,000	12,000,000	2	8	2,358	0.1	98	76QD0270(1)00(2)	R76QD0270(1)00(2)
1,000	400	0.00033	3.0	8.0	10.0	7.5	6,000	12,000,000	2	8	1,929	0.1	98	76QD0330(1)00(2)	R76QD0330(1)00(2)
1,000	400	0.00039	3.0	8.0	10.0	7.5	6,000	12,000,000	2	8	1,632	0.1	98	76QD0390(1)00(2)	R76QD0390(1)00(2)
1,000	400	0.00047	3.0	8.0	10.0	7.5	6,000	12,000,000	3	8	1,355	0.1	98	76QD0470(1)00(2)	R76QD0470(1)00(2)
1,000	400	0.00056	3.0	8.0	10.0	7.5	6,000	12,000,000	3	8	1,137	0.1	98	76QD0560(1)00(2)	R76QD0560(1)00(2)
1,000	400	0.00068	4.0	9.0	10.0	7.5	6,000	12,000,000	4	8	936	0.2	88	76QD0680(1)40(2)	R76QD0680(1)40(2)
1,000	400	0.00082	4.0	9.0	10.0	7.5	6,000	12,000,000	5	8	776	0.2	88	76QD0820(1)40(2)	R76QD0820(1)40(2)
1,000	400	0.001	4.0	9.0	10.0	7.5	6,000	12,000,000	6	8	637	0.3	88	76QD1100(1)40(2)	R76QD1100(1)40(2)
1,000	400	0.0012	4.0	9.0	10.0	7.5	6,000	12,000,000	7	8	531	0.3	88	76QD1120(1)40(2)	R76QD1120(1)40(2)
1,000	400	0.0015	5.0	10.5	10.0	7.5	6,000	12,000,000	9	8	424	0.4	78	76QD1150(1)40(2)	R76QD1150(1)40(2)
1,000	400	0.0018	5.0	10.5	10.0	7.5	6,000	12,000,000	11	8	354	0.5	78	76QD1180(1)40(2)	R76QD1180(1)40(2)
1,000	400	0.0022	5.0	10.5	10.0	7.5	6,000	12,000,000	13	8	289	0.6	78	76QD1220(1)40(2)	R76QD1220(1)40(2)
1,000	400	0.0027	6.0	12.0	10.5	7.5	6,000	12,000,000	16	8	236	0.7	69	76QD1270(1)00(2)	R76QD1270(1)00(2)
1,000	400	0.0033	6.0	12.0	10.5	7.5	6,000	12,000,000	20	8	193	0.8	69	76QD1330(1)00(2)	R76QD1330(1)00(2)
1,000	600	0.00047	4.0	9.0	13.0	10.0	6,500	13,000,000	3	9	1,355	0.2	79	76QF0470(1)00(2)	R76QF0470(1)00(2)
1,000	600	0.00056	4.0	9.0	13.0	10.0	6,500	13,000,000	4	9	1,137	0.2	79	76QF0560(1)00(2)	R76QF0560(1)00(2)
1,000	600	0.00068	4.0	9.0	13.0	10.0	6,500	13,000,000	4	9	936	0.3	79	76QF0680(1)00(2)	R76QF0680(1)00(2)
1,000	600	0.00082	4.0	9.0	13.0	10.0	6,500	13,000,000	5	9	776	0.3	79	76QF0820(1)00(2)	R76QF0820(1)00(2)
1,000	600	0.001	4.0	9.0	13.0	10.0	6,500	13,000,000	7	9	637	0.4	79	76QF1100(1)00(2)	R76QF1100(1)00(2)
1,000	600	0.0012	4.0	9.0	13.0	10.0	6,500	13,000,000	8	9	531	0.5	79	76QF1120(1)00(2)	R76QF1120(1)00(2)
1,000	600	0.0015	4.0	9.0	13.0	10.0	6,500	13,000,000	10	9	424	0.6	79	76QF1150(1)00(2)	R76QF1150(1)00(2)
1,000	600	0.0018	4.0	9.0	13.0	10.0	6,500	13,000,000	12	9	354	0.7	79	76QF1180(1)00(2)	R76QF1180(1)00(2)
1,000	600	0.0022	4.0	9.0	13.0	10.0	6,500	13,000,000	14	9	289	0.8	79	76QF1220(1)00(2)	R76QF1220(1)00(2)
1,000	600	0.0027	4.0	9.0	13.0	10.0	6,500	13,000,000	18	9	236	1.0	79	76QF1270(1)00(2)	R76QF1270(1)00(2)
1,000	600	0.0033	4.0	9.0	13.0	10.0	6,500	13,000,000	21	9	193	1.1	79	76QF1330(1)30(2)	R76QF1330(1)30(2)
1,000	600	0.0039	4.0	9.0	13.0	10.0	6,500	13,000,000	25	9	163	1.2	79	76QF1390(1)50(2)	R76QF1390(1)50(2)
1,000	600	0.0039	5.0	11.0	13.0	10.0	6,500	13,000,000	25	9	163	1.3	69	76QF1390(1)30(2)	R76QF1390(1)30(2)
1,000	600	0.0047	4.0	9.0	13.0	10.0	6,500	13,000,000	31	9	135	1.4	79	76QF1470(1)50(2)	R76QF1470(1)50(2)
1,000	600	0.0047	5.0	11.0	13.0	10.0	6,500	13,000,000	31	9	135	1.5	69	76QF1470(1)30(2)	R76QF1470(1)30(2)
1,000	600	0.0056	4.0	9.0	13.0	10.0	6,500	13,000,000	36	9	114	1.5	79	76QF1560(1)50(2)	R76QF1560(1)50(2)
1,000	600	0.0056	6.0	12.0	13.0	10.0	6,500	13,000,000	36	9	114	1.7	64	76QF1560(1)30(2)	R76QF1560(1)30(2)
1,000	600	0.0068	4.0	9.0	13.0	10.0	6,500	13,000,000	44	9	94	1.6	79	76QF1680(1)50(2)	R76QF1680(1)50(2)
1,000	600	0.0068	6.0	12.0	13.0	10.0	6,500	13,000,000	44	9	94	1.8	64	76QF1680(1)30(2)	R76QF1680(1)30(2)
1,000	600	0.0082	5.0	11.0	13.0	10.0	6,500	13,000,000	53	9	78	1.9	69	76QF1820(1)50(2)	R76QF1820(1)50(2)
1,000	600	0.01	5.0	11.0	13.0	10.0	6,500	13,000,000	65	9	64	2.1	69	76QF2100(1)50(2)	R76QF2100(1)50(2)
1,000	600	0.012	5.0	11.0	13.0	10.0	6,500	13,000,000	78	9	53	2.3	69	76QF2120(1)50(2)	R76QF2120(1)50(2)
1,000	600	0.015	6.0	12.0	13.0	10.0	6,500	13,000,000	98	9	42	2.7	64	76QF2150(1)50(2)	R76QF2150(1)50(2)
1,000	600	0.0082	4.0	10.0	18.0	15.0	3,500	7,000,000	29	10	78	2.0	65	76QI1820(1)40(2)	R76QI1820(1)40(2)
1,000	600	0.0082	5.0	11.0	18.0	15.0	3,500	7,000,000	29	10	78	2.1	60	76QI1820(1)00(2)	R76QI1820(1)00(2)
1,000	600	0.01	4.0	10.0	18.0	15.0	3,500	7,000,000	35	10	64	2.2	65	76QI2100(1)40(2)	R76QI2100(1)40(2)
1,000	600	0.01	5.0	11.0	18.0	15.0	3,500	7,000,000	35	10	64	2.3	60	76QI2100(1)30(2)	R76QI2100(1)30(2)
1,000	600	0.012	5.0	11.0	18.0	15.0	3,500	7,000,000	42	10	53	2.5	60	76QI2120(1)30(2)	R76QI2120(1)30(2)
1,000	600	0.015	5.0	11.0	18.0	15.0	3,500	7,000,000	53	10	42	2.8	60	76QI2150(1)40(2)	R76QI2150(1)40(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz 85°C / $I_{rms\ max}$ (*)	(°C/W) / R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) H = 2.5% (only for C ≥ 1,000 pF), J = 5%, K = 10%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	$I_{rms\ max}$ (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz 85°C A_{rms}	(°C/W)		
1,000	600	0.018	5.0	11.0	18.0	15.0	3,500	7,000,000	63	10	35	3.1	60	76QI2180(1)40(2)	R76QI2180(1)40(2)
1,000	600	0.022	6.0	12.0	18.0	15.0	3,500	7,000,000	77	10	29	3.5	56	76QI2220(1)40(2)	R76QI2220(1)40(2)
1,000	600	0.022	9.0	12.5	18.0	15.0	3,500	7,000,000	77	10	29	3.7	50	76QI2220(1)70(2)	R76QI2220(1)70(2)
1,000	600	0.027	6.0	12.0	18.0	15.0	3,500	7,000,000	95	10	24	3.9	56	76QI2270(1)50(2)	R76QI2270(1)50(2)
1,000	600	0.027	7.5	13.5	18.0	15.0	3,500	7,000,000	95	10	24	4.1	51	76QI2270(1)40(2)	R76QI2270(1)40(2)
1,000	600	0.027	9.0	12.5	18.0	15.0	3,500	7,000,000	95	10	24	4.1	50	76QI2270(1)70(2)	R76QI2270(1)70(2)
1,000	600	0.033	6.0	12.0	18.0	15.0	3,500	7,000,000	116	10	19	4.3	56	76QI2330(1)50(2)	R76QI2330(1)50(2)
1,000	600	0.033	7.5	13.5	18.0	15.0	3,500	7,000,000	116	10	19	4.5	51	76QI2330(1)40(2)	R76QI2330(1)40(2)
1,000	600	0.033	13.0	12.0	18.0	15.0	3,500	7,000,000	116	10	19	4.8	45	76QI2330(1)70(2)	R76QI2330(1)70(2)
1,000	600	0.039	7.5	13.5	18.0	15.0	3,500	7,000,000	137	10	16	4.9	51	76QI2390(1)50(2)	R76QI2390(1)50(2)
1,000	600	0.039	8.5	14.5	18.0	15.0	3,500	7,000,000	137	10	16	5.1	48	76QI2390(1)40(2)	R76QI2390(1)40(2)
1,000	600	0.047	7.5	13.5	18.0	15.0	3,500	7,000,000	165	10	14	5.4	51	76QI2470(1)50(2)	R76QI2470(1)50(2)
1,000	600	0.047	8.5	14.5	18.0	15.0	3,500	7,000,000	165	10	14	5.6	48	76QI2470(1)40(2)	R76QI2470(1)40(2)
1,000	600	0.056	8.5	14.5	18.0	15.0	3,500	7,000,000	196	10	20	4.6	48	76QI2560(1)50(2)	R76QI2560(1)50(2)
1,000	600	0.068	8.5	14.5	18.0	15.0	3,500	7,000,000	238	10	16	5.1	48	76QI2680(1)50(2)	R76QI2680(1)50(2)
1,000	600	0.082	10.0	16.0	18.0	15.0	3,500	7,000,000	287	10	14	5.8	44	76QI2820(1)50(2)	R76QI2820(1)50(2)
1,000	600	0.1	11.0	19.0	18.0	15.0	3,500	7,000,000	350	10	11	6.7	40	76QI3100(1)50(2)	R76QI3100(1)50(2)
1,000	600	0.12	11.0	19.0	18.0	15.0	3,500	7,000,000	420	10	13	6.1	40	76QI3120(1)50(2)	R76QI3120(1)50(2)
1,000	600	0.027	6.0	15.0	26.5	22.5	2,100	4,200,000	57	16	24	4.4	43	76QN2270(1)00(2)	R76QN2270(1)00(2)
1,000	600	0.033	6.0	15.0	26.5	22.5	2,100	4,200,000	69	16	19	4.9	43	76QN2330(1)30(2)	R76QN2330(1)30(2)
1,000	600	0.039	6.0	15.0	26.5	22.5	2,100	4,200,000	82	16	16	5.3	43	76QN2390(1)30(2)	R76QN2390(1)30(2)
1,000	600	0.047	6.0	15.0	26.5	22.5	2,100	4,200,000	99	16	14	5.8	43	76QN2470(1)50(2)	R76QN2470(1)50(2)
1,000	600	0.047	7.0	16.0	26.5	22.5	2,100	4,200,000	99	16	14	6.0	41	76QN2470(1)30(2)	R76QN2470(1)30(2)
1,000	600	0.056	6.0	15.0	26.5	22.5	2,100	4,200,000	118	16	20	4.8	43	76QN2560(1)50(2)	R76QN2560(1)50(2)
1,000	600	0.056	7.0	16.0	26.5	22.5	2,100	4,200,000	118	16	20	4.9	41	76QN2560(1)30(2)	R76QN2560(1)30(2)
1,000	600	0.068	7.0	16.0	26.5	22.5	2,100	4,200,000	143	16	16	5.5	41	76QN2680(1)50(2)	R76QN2680(1)50(2)
1,000	600	0.068	8.5	17.0	26.5	22.5	2,100	4,200,000	143	16	16	5.6	38	76QN2680(1)30(2)	R76QN2680(1)30(2)
1,000	600	0.082	7.0	16.0	26.5	22.5	2,100	4,200,000	172	16	14	6.0	41	76QN2820(1)50(2)	R76QN2820(1)50(2)
1,000	600	0.082	10.0	18.5	26.5	22.5	2,100	4,200,000	172	16	14	6.4	36	76QN2820(1)30(2)	R76QN2820(1)30(2)
1,000	600	0.1	8.5	17.0	26.5	22.5	2,100	4,200,000	210	16	11	6.8	38	76QN3100(1)50(2)	R76QN3100(1)50(2)
1,000	600	0.1	10.0	18.5	26.5	22.5	2,100	4,200,000	210	16	11	7.1	36	76QN3100(1)30(2)	R76QN3100(1)30(2)
1,000	600	0.12	8.5	17.0	26.5	22.5	2,100	4,200,000	252	16	20	5.1	38	76QN3120(1)50(2)	R76QN3120(1)50(2)
1,000	600	0.12	11.0	20.0	26.5	22.5	2,100	4,200,000	252	16	20	5.4	34	76QN3120(1)30(2)	R76QN3120(1)30(2)
1,000	600	0.15	10.0	18.5	26.5	22.5	2,100	4,200,000	315	16	16	5.9	36	76QN3150(1)50(2)	R76QN3150(1)50(2)
1,000	600	0.15	13.0	22.0	26.5	22.5	2,100	4,200,000	315	16	16	6.3	31	76QN3150(1)30(2)	R76QN3150(1)30(2)
1,000	600	0.18	11.0	20.0	26.5	22.5	2,100	4,200,000	378	16	13	6.7	34	76QN3180(1)50(2)	R76QN3180(1)50(2)
1,000	600	0.22	11.0	20.0	26.5	22.5	2,100	4,200,000	462	16	11	7.4	34	76QN3220(1)50(2)	R76QN3220(1)50(2)
1,000	600	0.27	13.0	22.0	26.5	22.5	2,100	4,200,000	567	16	9	8.5	31	76QN3270(1)50(2)	R76QN3270(1)50(2)
1,000	600	0.33	13.0	22.0	26.5	22.5	2,100	4,200,000	693	16	7	9.4	31	76QN3330(1)50(2)	R76QN3330(1)50(2)
1,000	600	0.39	14.5	29.5	26.5	22.5	2,100	4,200,000	819	16	8	9.5	27	76QN3390(1)50(2)	R76QN3390(1)50(2)
1,000	600	0.1	9.0	17.0	32.0	27.5	1,000	2,000,000	100	18	11	7.2	35	76QR3100(1)40(2)	R76QR3100(1)40(2)
1,000	600	0.12	9.0	17.0	32.0	27.5	1,000	2,000,000	120	18	20	5.4	35	76QR3120(1)40(2)	R76QR3120(1)40(2)
1,000	600	0.15	11.0	20.0	32.0	27.5	1,000	2,000,000	150	18	16	6.3	31	76QR3150(1)30(2)	R76QR3150(1)30(2)
1,000	600	0.18	13.0	22.0	32.0	27.5	1,000	2,000,000	180	18	13	7.2	29	76QR3180(1)30(2)	R76QR3180(1)30(2)
1,000	600	0.18	24.0	15.0	32.0	27.5	1,000	2,000,000	180	18	13	7.5	27	76QR3180(1)L0(2)	R76QR3180(1)L0(2)
1,000	600	0.22	13.0	22.0	32.0	27.5	1,000	2,000,000	220	18	11	8.0	29	76QR3220(1)30(2)	R76QR3220(1)30(2)
1,000	600	0.22	24.0	15.0	32.0	27.5	1,000	2,000,000	220	18	11	8.2	27	76QR3220(1)L0(2)	R76QR3220(1)L0(2)
1,000	600	0.27	13.0	25.0	32.0	27.5	1,000	2,000,000	270	18	9	9.0	28	76QR3270(1)40(2)	R76QR3270(1)40(2)
VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk} / I_{pkr}	Lead Length 2x 4 mm / ESL	at 100 kHz / ESR max	at 100 kHz 85°C / $I_{rms\ max}$ (*)	(°C/W) / R_{th}	KEMET Internal Part Number	Customer Part Number

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) H = 2.5% (only for C ≥ 1,000 pF), J = 5%, K = 10%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	$I_{rms\ max}$ (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm	at 100 kHz	at 100 kHz 85°C	(°C/W)		
										nH	mΩ	A_{rms}			
1,000	600	0.27	24.0	15.0	32.0	27.5	1,000	2,000,000	270	18	9	9.1	27	76QR3270(1)L0(2)	R76QR3270(1)L0(2)
1,000	600	0.33	14.0	28.0	32.0	27.5	1,000	2,000,000	330	18	7	10.3	26	76QR3330(1)30(2)	R76QR3330(1)30(2)
1,000	600	0.39	18.0	33.0	32.0	27.5	1,000	2,000,000	390	18	8	10.3	23	76QR3390(1)30(2)	R76QR3390(1)30(2)
1,000	600	0.47	18.0	33.0	32.0	27.5	1,000	2,000,000	470	18	7	11.3	23	76QR3470(1)30(2)	R76QR3470(1)30(2)
1,000	600	0.56	22.0	37.0	32.0	27.5	1,000	2,000,000	560	18	6	13.0	21	76QR3560(1)30(2)	R76QR3560(1)30(2)
1,000	600	0.68	22.0	37.0	32.0	27.5	1,000	2,000,000	680	18	7	11.7	21	76QR3680(1)30(2)	R76QR3680(1)30(2)
1,000	600	0.18	11.0	22.0	41.5	37.5	500	1,000,000	90	20	13	7.5	27	76QW3180(1)30(2)	R76QW3180(1)30(2)
1,000	600	0.22	11.0	22.0	41.5	37.5	500	1,000,000	110	20	11	8.2	27	76QW3220(1)30(2)	R76QW3220(1)30(2)
1,000	600	0.27	13.0	24.0	41.5	37.5	500	1,000,000	135	20	9	9.5	25	76QW3270(1)30(2)	R76QW3270(1)30(2)
1,000	600	0.27	24.0	15.0	41.5	37.5	500	1,000,000	135	20	9	9.6	24	76QW3270(1)L0(2)	R76QW3270(1)L0(2)
1,000	600	0.33	13.0	24.0	41.5	37.5	500	1,000,000	165	20	7	10.5	25	76QW3330(1)30(2)	R76QW3330(1)30(2)
1,000	600	0.33	24.0	15.0	41.5	37.5	500	1,000,000	165	20	7	10.6	24	76QW3330(1)L0(2)	R76QW3330(1)L0(2)
1,000	600	0.39	16.0	28.5	41.5	37.5	500	1,000,000	195	20	8	10.4	23	76QW3390(1)30(2)	R76QW3390(1)30(2)
1,000	600	0.39	24.0	15.0	41.5	37.5	500	1,000,000	195	20	8	10.0	24	76QW3390(1)L0(2)	R76QW3390(1)L0(2)
1,000	600	0.47	16.0	28.5	41.5	37.5	500	1,000,000	235	20	7	11.4	23	76QW3470(1)30(2)	R76QW3470(1)30(2)
1,000	600	0.47	24.0	19.0	41.5	37.5	500	1,000,000	235	20	7	11.4	23	76QW3470(1)L0(2)	R76QW3470(1)L0(2)
1,000	600	0.56	16.0	28.5	41.5	37.5	500	1,000,000	280	20	6	12.5	23	76QW3560(1)30(2)	R76QW3560(1)30(2)
1,000	600	0.56	24.0	19.0	41.5	37.5	500	1,000,000	280	20	6	12.4	23	76QW3560(1)L0(2)	R76QW3560(1)L0(2)
1,000	600	0.68	19.0	32.0	41.5	37.5	500	1,000,000	340	20	7	11.7	21	76QW3680(1)30(2)	R76QW3680(1)30(2)
1,000	600	0.82	20.0	40.0	41.5	37.5	500	1,000,000	410	20	6	13.5	19	76QW3820(1)30(2)	R76QW3820(1)30(2)
1,000	600	1	20.0	40.0	41.5	37.5	500	1,000,000	500	20	5.6	13.8	19	76QW4100(1)30(2)	R76QW4100(1)30(2)
1,000	600	1.2	24.0	44.0	41.5	37.5	500	1,000,000	600	20	5.3	14.8	17	76QW4120(1)30(2)	R76QW4120(1)30(2)
1,000	600	1.5	24.0	44.0	41.5	37.5	500	1,000,000	750	20	4.2	16.5	17	76QW4150(1)30(2)	R76QW4150(1)30(2)
1,000	600	1.8	30.0	45.0	41.5	37.5	500	1,000,000	900	20	5.3	15.3	16	76QW4180(1)30(2)	R76QW4180(1)30(2)
1,000	600	2.2	30.0	45.0	41.5	37.5	500	1,000,000	1,100	20	4.3	17.0	16	76QW4220(1)30(2)	R76QW4220(1)30(2)
1,600	650	0.0022	4.0	9.0	13.0	10.0	8000	25,600,000	18	9	289.4	0.9	79	76TF1220(1)50(2)	R76TF1220(1)50(2)
1,600	650	0.0027	4.0	9.0	13.0	10.0	8000	25,600,000	22	9	235.8	1.0	79	76TF1270(1)50(2)	R76TF1270(1)50(2)
1,600	650	0.0033	5.0	11.0	13.0	10.0	8000	25,600,000	26	9	192.9	1.2	69	76TF1330(1)50(2)	R76TF1330(1)50(2)
1,600	650	0.0039	5.0	11.0	13.0	10.0	8000	25,600,000	31	9	163.2	1.3	69	76TF1390(1)50(2)	R76TF1390(1)50(2)
1,600	650	0.0047	5.0	11.0	13.0	10.0	8000	25,600,000	38	9	135.5	1.5	69	76TF1470(1)50(2)	R76TF1470(1)50(2)
1,600	650	0.0056	6.0	12.0	13.0	10.0	8000	25,600,000	45	9	113.7	1.7	64	76TF1560(1)50(2)	R76TF1560(1)50(2)
1,600	650	0.0068	6.0	12.0	13.0	10.0	8000	25,600,000	54	9	93.6	1.8	64	76TF1680(1)50(2)	R76TF1680(1)50(2)
1,600	650	0.0033	4.0	10.0	18.0	15.0	6,000	19,200,000	20	10	193	1.3	65	76TI1330(1)40(2)	R76TI1330(1)40(2)
1,600	650	0.0033	5.0	11.0	18.0	15.0	6,000	19,200,000	20	10	193	1.3	60	76TI1330(1)30(2)	R76TI1330(1)30(2)
1,600	650	0.0039	4.0	10.0	18.0	15.0	6,000	19,200,000	23	10	163	1.4	65	76TI1390(1)40(2)	R76TI1390(1)40(2)
1,600	650	0.0039	5.0	11.0	18.0	15.0	6,000	19,200,000	23	10	163	1.4	60	76TI1390(1)30(2)	R76TI1390(1)30(2)
1,600	650	0.0047	4.0	10.0	18.0	15.0	6,000	19,200,000	28	10	135	1.5	65	76TI1470(1)40(2)	R76TI1470(1)40(2)
1,600	650	0.0047	5.0	11.0	18.0	15.0	6,000	19,200,000	28	10	135	1.6	60	76TI1470(1)30(2)	R76TI1470(1)30(2)
1,600	650	0.0056	4.0	10.0	18.0	15.0	6,000	19,200,000	34	10	114	1.6	65	76TI1560(1)40(2)	R76TI1560(1)40(2)
1,600	650	0.0056	5.0	11.0	18.0	15.0	6,000	19,200,000	34	10	114	1.7	60	76TI1560(1)30(2)	R76TI1560(1)30(2)
1,600	650	0.0068	5.0	11.0	18.0	15.0	6,000	19,200,000	41	10	94	1.9	60	76TI1680(1)30(2)	R76TI1680(1)30(2)
1,600	650	0.0082	5.0	11.0	18.0	15.0	6,000	19,200,000	49	10	78	2.1	60	76TI1820(1)40(2)	R76TI1820(1)40(2)
1,600	650	0.01	5.0	11.0	18.0	15.0	6,000	19,200,000	60	10	64	2.3	60	76TI2100(1)40(2)	R76TI2100(1)40(2)
1,600	650	0.012	6.0	12.0	18.0	15.0	6,000	19,200,000	72	10	53	2.6	56	76TI2120(1)40(2)	R76TI2120(1)40(2)
1,600	650	0.015	6.0	12.0	18.0	15.0	6,000	19,200,000	90	10	42	2.9	56	76TI2150(1)40(2)	R76TI2150(1)40(2)
1,600	650	0.018	7.5	13.5	18.0	15.0	6,000	19,200,000	108	10	35	3.3	51	76TI2180(1)40(2)	R76TI2180(1)40(2)
1,600	650	0.018	9.0	12.5	18.0	15.0	6,000	19,200,000	108	10	35	3.4	50	76TI2180(1)70(2)	R76TI2180(1)70(2)
1,600	650	0.022	7.5	13.5	18.0	15.0	6,000	19,200,000	132	10	29	3.7	51	76TI2220(1)40(2)	R76TI2220(1)40(2)

VDC	VAC	Cap Value	T	H	L	Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	A_{pk}	Lead Length 2x 4 mm	at 100 kHz	at 100 kHz 85°C	(°C/W)	KEMET Internal Part Number	Customer Part Number
									I_{pkr}	ESL	ESR max	$I_{rms\ max}$ (*)	R_{th}		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) H = 2.5% (only for C ≥ 1,000 pF), J = 5%, K = 10%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Table 1 – Ratings & Part Number Reference cont.

VDC	VAC	Cap Value (µF)	Dimensions in mm			Lead Spacing (S)	dV/dt (V/µs)	Max K_0 (V^2/µs)	I_{pkr}	ESL	ESR max	$I_{rms\ max}$ (*)	Rth	KEMET Internal Part Number	Customer Part Number
			T	H	L				A_{pk}	Lead Length 2x 4 mm nH	at 100 kHz mΩ	at 100 kHz 85°C A_{rms}	(°C/W)		
1,600	650	0.022	13.0	12.0	18.0	15.0	6,000	19,200,000	132	10	29	3.9	45	76TI2220(1)70(2)	R76TI2220(1)70(2)
1,600	650	0.027	8.5	14.5	18.0	15.0	6,000	19,200,000	162	10	24	4.2	48	76TI2270(1)40(2)	R76TI2270(1)40(2)
1,600	650	0.033	8.5	14.5	18.0	15.0	6,000	19,200,000	198	10	19	4.7	48	76TI2330(1)40(2)	R76TI2330(1)40(2)
1,600	650	0.039	10.0	16.0	18.0	15.0	6,000	19,200,000	234	10	16.3	5.3	44	76TI2390(1)50(2)	R76TI2390(1)50(2)
1,600	650	0.047	11.0	19.0	18.0	15.0	6,000	19,200,000	282	10	13.5	6.1	40	76TI2470(1)50(2)	R76TI2470(1)50(2)
1,600	650	0.056	11.0	19.0	18.0	15.0	6,000	19,200,000	336	10	19.9	5.0	40	76TI2560(1)50(2)	R76TI2560(1)50(2)
1,600	650	0.015	6.0	15.0	26.5	22.5	3,000	9,600,000	45	16	42	3.3	43	76TN2150(1)30(2)	R76TN2150(1)30(2)
1,600	650	0.018	6.0	15.0	26.5	22.5	3,000	9,600,000	54	16	35	3.6	43	76TN2180(1)30(2)	R76TN2180(1)30(2)
1,600	650	0.022	6.0	15.0	26.5	22.5	3,000	9,600,000	66	16	29	4.0	43	76TN2220(1)30(2)	R76TN2220(1)30(2)
1,600	650	0.027	6.0	15.0	26.5	22.5	3,000	9,600,000	81	16	24	4.4	43	76TN2270(1)30(2)	R76TN2270(1)30(2)
1,600	650	0.033	6.0	15.0	26.5	22.5	3,000	9,600,000	99	16	19	4.9	43	76TN2330(1)40(2)	R76TN2330(1)40(2)
1,600	650	0.039	7.0	16.0	26.5	22.5	3,000	9,600,000	117	16	16	5.5	41	76TN2390(1)40(2)	R76TN2390(1)40(2)
1,600	650	0.047	7.0	16.0	26.5	22.5	3,000	9,600,000	141	16	14	6.0	41	76TN2470(1)40(2)	R76TN2470(1)40(2)
1,600	650	0.056	8.5	17.0	26.5	22.5	3,000	9,600,000	168	16	20	5.1	38	76TN2560(1)40(2)	R76TN2560(1)40(2)
1,600	650	0.068	10.0	18.5	26.5	22.5	3,000	9,600,000	204	16	16	5.8	36		

(1) Insert lead and packaging code. See Ordering Options Table for available options.
(2) H = 2.5% (only for C ≥ 1,000 pF), J = 5%, K = 10%
(*) I_{rms} value that leads to a ΔT of ≈ 20°C in the hot spot > $T_{HS} = T_{AMB} + \Delta T = 85°C + 20°C = 105°C$

Marking cont.

Manufacturing Date Code (IEC–60062)			
Year	**Code**	**Month**	**Code**
2010	A	January	1
2011	B	February	2
2012	C	March	3
2013	D	April	4
2014	E	May	5
2015	F	June	6
2016	H	July	7
2017	J	August	8
2018	K	September	9
2019	L	October	O
2020	M	November	N
2021	N	December	D
2022	P		
2023	R		
2024	S		
2025	T		
2026	U		
2027	V		
2028	W		
2029	X		
2030	A		

Packaging Quantities

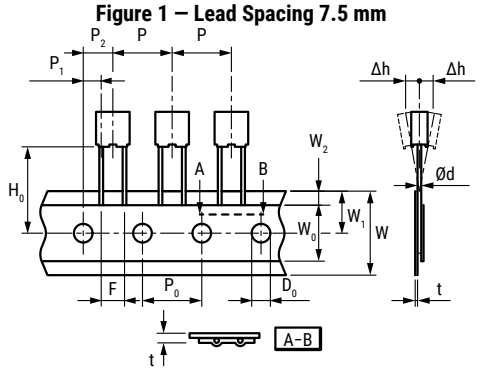
Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads		Standard Reel ø 355 mm	Large Reel ø 500 mm	Ammo Taped
	Lead and Packaging Code			JA - JB JE - JH - SE	Z3[1] - JM[2]	40 - 50	GY - CK[1]	CK	DQ
7.5	3.0	8.0	10.0	1,500	1,750	-	2,100	-	2,800
	4.0	9.0	10.0	2,000	1,500	-	1,500	-	2,100
	5.0	10.5	10.0	1,500	1,000	-	1,200	-	1,600
	6.0	12.0	10.5	1,000	800	-	1,000	-	1,350
10	4.0	9.0	13.0	2,000	2,200	1,800	750	1,500	1,000
	5.0	11.0	13.0	1,300	2,000	1,500	600	1,250	800
	6.0	12.0	13.0	1,000	1,800	1,200	500	1,000	680
15	4.0	10.0	18.0	2,500	1,500	1,500	750	1,500	1,000
	5.0	11.0	18.0	2,000	1,250	1,000	600	1,250	800
	6.0	12.0	18.0	1,750	1,000	900	500	1,000	680
	7.5	13.5	18.0	1,000	800	700	350	800	500
	8.5	14.5	18.0	1,000	650	500	300	700	440
	9.0	12.5	18.0	1,000	700	520	270	650	410
	10.0	16.0	18.0	750	550	500	270	600	380
	11.0	19.0	18.0	450	400	350	270	500	340
	13.0	12.0	18.0	750	520	490	200	480	280
22.5	6.0	15.0	26.5	805	450	500	300	700	464
	7.0	16.0	26.5	700	450	500	250	550	380
	8.5	17.0	26.5	468	350	300	250	450	280
	10.0	18.5	26.5	396	350	300	160	350	235
	11.0	20.0	26.5	360	200	250	160	350	217
	13.0	22.0	26.5	300	150	200	130	300	-
	14.5	29.5	26.5	264	120	-	-	-	-
27.5	9.0	17.0	32.0	816	-	408	230	450	-
	11.0	20.0	32.0	560	-	336	190	350	-
	13.0	12.0	32.0	672	-	288	-	-	-
	13.0	22.0	32.0	480	-	288	150	300	-
	13.0	25.0	32.0	480	-	288	-	-	-
	14.0	28.0	32.0	352	-	176	-	-	-
	16.0	30.0	32.0	288	-	144	-	-	-
	18.0	33.0	32.0	256	-	128	-	-	-
	22.0	37.0	32.0	168	-	112	-	-	-
	24.0	15.0	32.0	336	-	144	-	-	-
37.5	11.0	22.0	41.5	420	-	252	-	-	-
	13.0	24.0	41.5	360	-	216	-	-	-
	16.0	28.5	41.5	216	-	108	-	-	-
	19.0	32.0	41.5	192	-	96	-	-	-
	20.0	40.0	41.5	126	-	84	-	-	-
	24.0	15.0	41.5	252	-	108	-	-	-
	24.0	19.0	41.5	216	-	108	-	-	-
	24.0	44.0	41.5	108	-	72	-	-	-
	30.0	45.0	41.5	90	-	60	-	-	-

1 Only for 7.5 mm lead spacing.

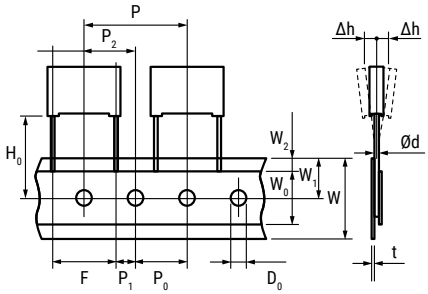
2 Only for > 7.5 mm lead spacing.

Lead Taping & Packaging (IEC 60286–2)

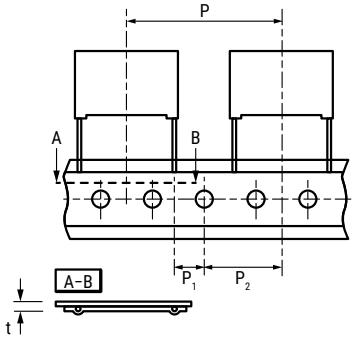
Figure 1 — Lead Spacing 7.5 mm



Lead Spacing 10 & 15 mm



Lead Spacing 22.5 & 27.5 mm



Taping Specification

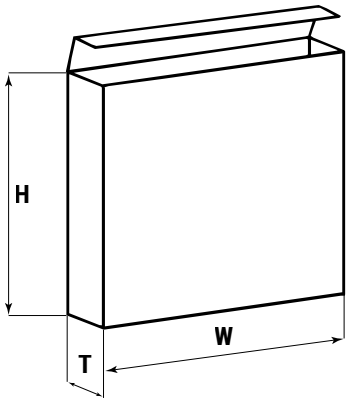
Description	Symbol	Dimensions (mm)					
		Lead Spacing					Tolerance
		7.5	10.0	15.0	22.5	27.5	
Lead wire diameter	d	0.5 – 0.6	0.6	0.6 – 0.8	0.8	0.8	±0.05
Taping lead space	P	12.7	25.4	25.4	38.1	38.1	±1
Feed hole lead space *	P_0	12.7	12.7	12.7	12.7	12.7	±0.2 **
Centering of the lead wire	P_1	2.6	7.7	5.2	7.8	5.3	±0.7
Centering of the body	P_2	6.35	12.7	12.7	19.05	19.05	±1.3
Lead spacing ***	F	7.5	10.0	15.0	22.5	27.5	+0.6/−0.1
Component alignment	Δh	0	0	0	0	0	±2
Component deviation	Δp	0	0	0	0	0	±1
Height of component from tape center	H_0****	18.5	18.5	18.5	18.5	18.5	±0.5
Carrier tape width	W	18	18	18	18	18	+1/−0.5
Hold down tape width	W_0	6	9	10	10	10	Minimum
Hole position	W_1	9	9	9	9	9	±0.5
Hold down tape position	W_2	3	3	3	3	3	Maximum
Feed hole diameter	D_0	4	4	4	4	4	±0.2
Total Tape thickness	t	0.7	0.7	0.7	0.7	0.7	±0.2

** Available also 15 mm.*
*** Maximum 1 mm on 20 lead spacing.*
**** 15 mm and 10 mm taped to 7.5 mm (crimped leads) available upon request.*
***** H_0 = 16.5 mm is available upon request.*

Lead Taping & Packaging (IEC 60286–2) cont.

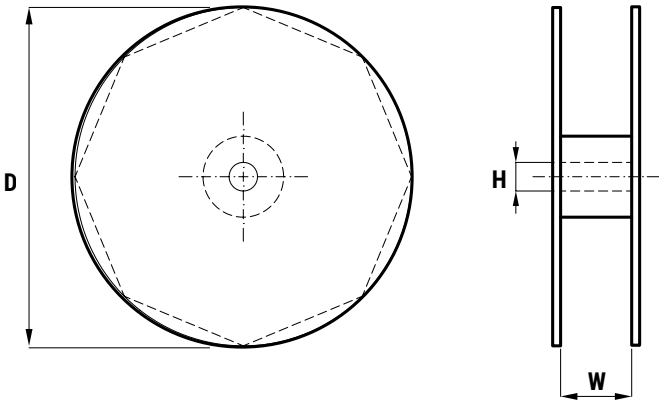
Ammo Specifications

Dimensions (mm)		
H	W	T
360	340	59



Reel Specifications

Dimensions (mm)		
D	H	W
355 500	30 25	55 Maximum



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