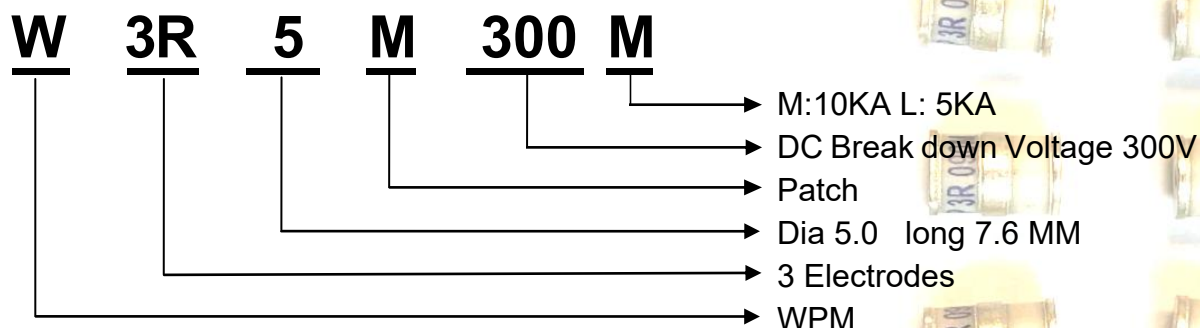


Part Number Code



Size:φ 5.0×7.6 mm

Voltage:75~800V

Maximum Impulse Discharge Current(8/20μs):

5,2.5,1.5(KA)Normal Alternating Discharge Current:

5 、 2.5 、 2(A) General application:

For Telecom

Condition	Products
CPE-Side Tip-Ring Signal Wire	Splitter
CO-Side Tip-Ring Signal Wire	XDSL 、 Splitter
Wireless	Antenna
General	(ITU-T)Other In Customer

For Power System

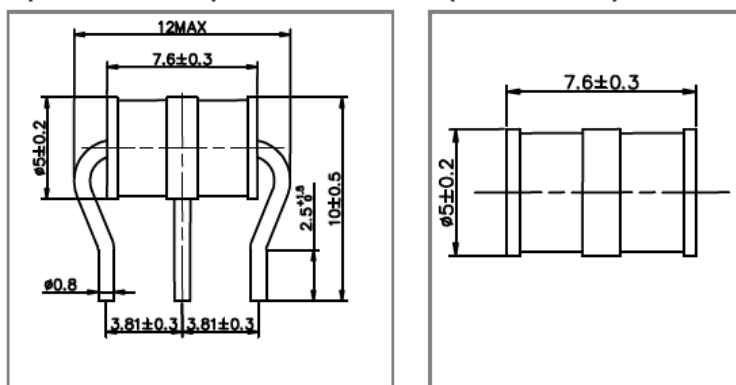
Condition	Products
Out-Side Power Line	Solar Power Plate 、 HID-Lights 、 LED-Lights
Other	Projector

Specification

Model Name	DC Breakdown Voltage (V)	Maximum Impulse Breakdown Voltage (V)		Maximum Impulse Discharge Current (8/20 μ s) (KA)		Normal Alternating Discharge Current (A)		Impulse Life (10/1000 μ s) (100A)	DC Holdover Voltage (V)	Minimum Insulation Resistance (G Ω)	Maximum Capacitance (pf)
	100V/s	100V/ μ s	1000V/ μ s	1 time	10 times	50Hz, 1sec	Single 9cycles	times	<150ms	Note2	1MHZ
3R-075	75 $\pm$ 20%	600	600	10	5	5	15	300	52	1	1
3R-090	90 $\pm$ 20%	600	600						52	1	1
3R-120	120 $\pm$ 20%	600	650						52	1	1
3R-130	130 $\pm$ 20%	600	650						52	1	1
3R-145	145 $\pm$ 20%	600	650						52	1	1
3R-230	230 $\pm$ 20%	600	700						80	1	1
3R-250	250 $\pm$ 20%	600	700						80	1	1
3R-300	300 $\pm$ 20%	700	900						150	1	1
3R-350	350 $\pm$ 20%	700	900						150	1	1
3R-400	400 $\pm$ 20%	800	1000						150	1	1
3R-500	500 $\pm$ 20%	900	1100						150	1	1
3R-600	600 $\pm$ 20%	1050	1100						150	1	1
3R-800	800 $\pm$ 20%	1150	1400						150	1	1

Outline Drawing

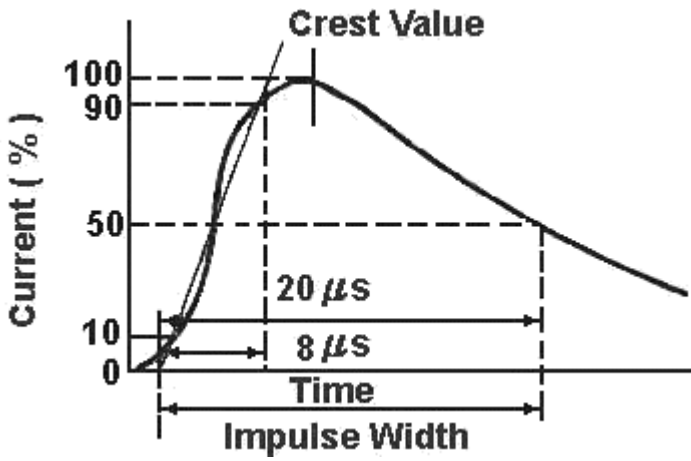
DIP



SMD

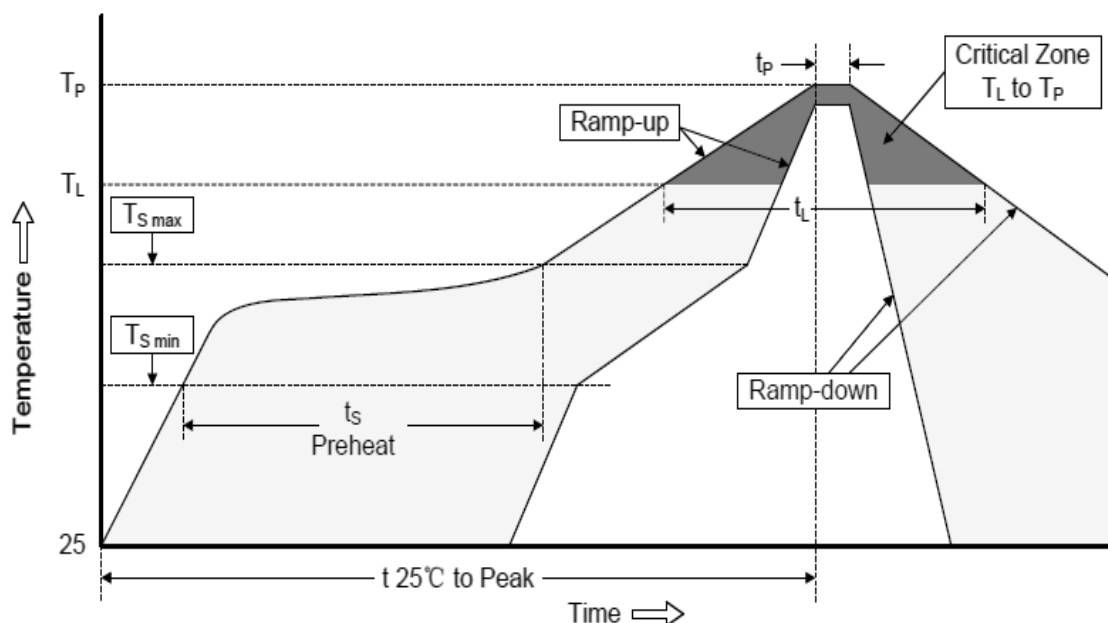
Symbol	Dimension (mm)	
	Spec.	Tolerance
D	5.0	$\pm$ 0.2
T	7.6	$\pm$ 0.3
B	0.4	$\pm$ 0.1
B1	1.5	$\pm$ 0.2
d	4.8	$\pm$ 0.1

Electrical Rating

Item	Test Condition / Description	Requirement
DC Breakdown Voltage	The voltage is measured with a low rate of rise $dv / dt \div 100 \text{ v/s}$	To meet the specified value
Maximum Impulse	The maximum impulse breakdown voltage is measured with a rise time of $dv / dt \div 1000 \text{ v/}\mu\text{s}$	
Breakdown Voltage	The maximum current within gas tube voltage change of $\pm 20\%$ when one impulse is applied. Applied waveform : 8/20 μsec	
Maximum Impulse Discharge Current		
DC Holdover Voltage	The maximum DC voltage across the two terminals of gas tube under which it may be expected to return to the high impedance state after the gas tube breakdown.	
Insulation Resistance	The resistance of gas tube shall be measured each terminal to each other terminal.	
	Applied voltage: gas tube dc breakdown voltage under 150V, the test voltage is 50V dc; with all other types at 100V dc.	
Capacitance	The capacitance of gas tube shall be measured each terminal to each other terminal. Test frequency: 1 KHZ	
	In measurements involving 3-electrode gas tubes, the terminal not being tested shall be connected to a ground plane.	

Recommended Soldering Conditions

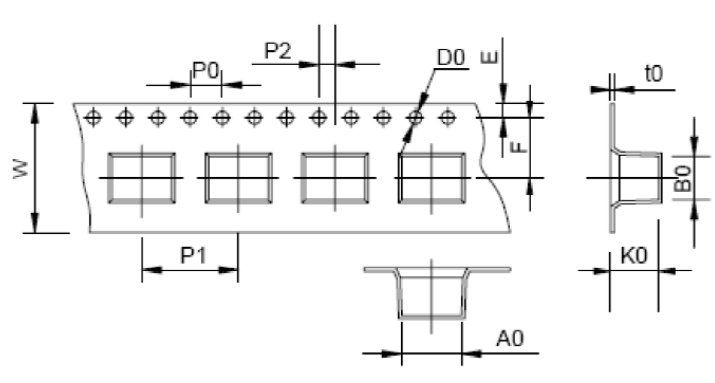
Reflow Soldering

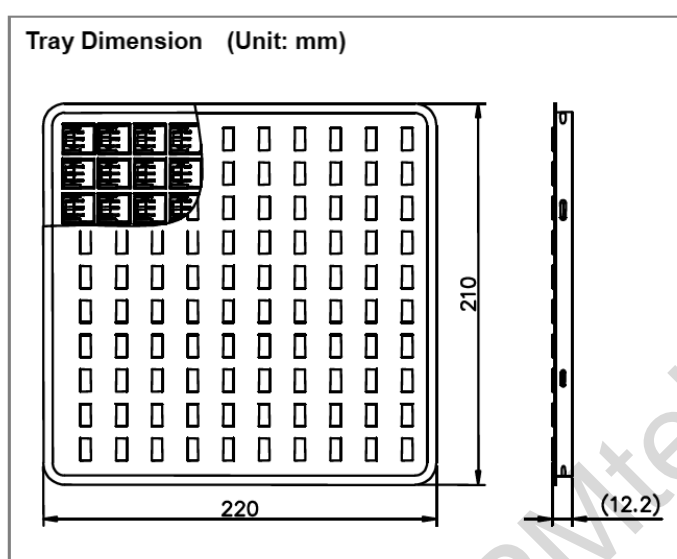
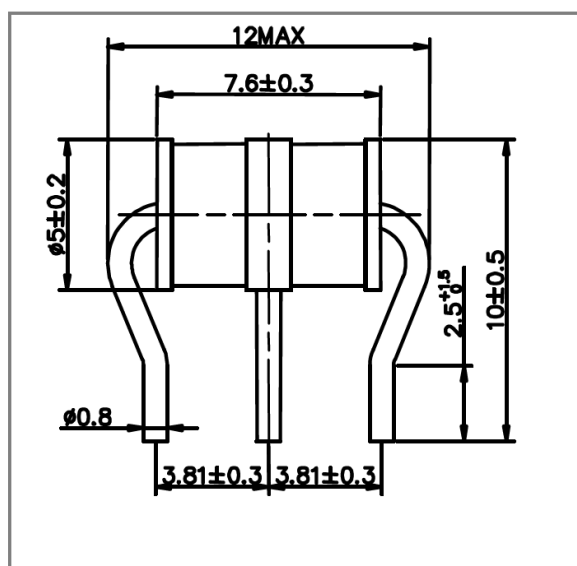


Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3°C/second max.
Preheat	
-Temperature Min ($T_{S \min}$)	150°C
-Temperature Max ($T_{S \max}$)	200°C
-Time (min to max) (t_s)	60-180 seconds
$T_{S \max}$ to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
-Temperature (T_L)	217°C
-Time (t_L)	60-150 seconds
Peak Temperature (T_P)	260°C
Time within 5°C of actual Peak Temperature (t_p)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

Packing

Tape	Symbol	Dimension (mm)	
		Spec.	Tolerance
	W	16.00	±0.20
	P0	4.00	±0.10
	P1	12.00	±0.20
	P2	2.00	±0.10
	D0	1.55	±0.05
	E	1.75	±0.10
	F	7.50	±0.10
	A0	7.40	±0.10
	K0	5.50	±0.10
	B0	5.40	±0.10
	t0	0.50	±0.10
Reel	D	330.00	±2.00
	d	13.00	±0.50
	L	20.00	±2.00
	t	2.00	±0.20
	Quantity: 1000pcs		



WPMtek reserves the right to make changes to the product specification and data in this document without notice. WPMtek makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does WPMtek assume any liability arising from the application or use of any products or circuits, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Any enquiry, please write to sales@wpmtek.com for further information.