

Ø8.0X6.0mm Series

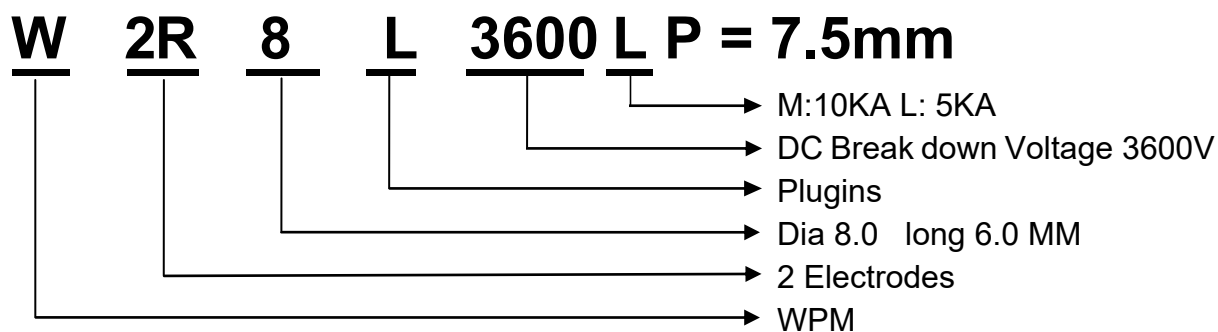
1. Provide ultra-fast response to surge voltage from slow-rising
2. surge of 100V/s to rapid-rising surge of 1KV/μs
3. Stable breakdown voltage
4. High insulation resistance
5. Low capacitance ($\leq 1.5\text{pF}$)
6. High holdover voltage
7. Large absorbing transient current capability
8. Micro-Gap Design
9. Size: 8.0mm*6.0mm
10. Storage and operating temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
11. Meets MSL level 1, per J-STD-020
12. Safety certification: E221527



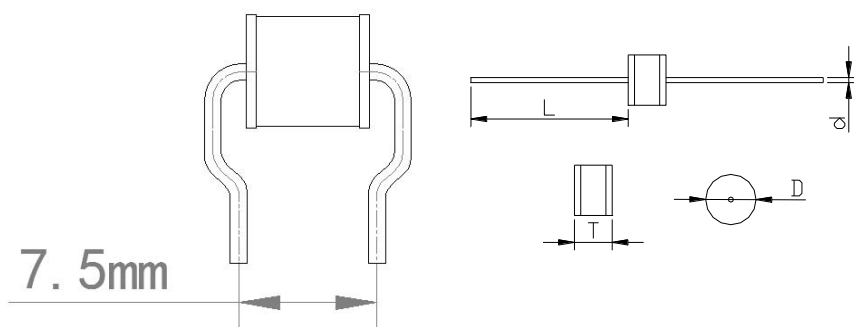
Applications

1. Repeaters, Modems
2. Telephone Interface, Line cards
3. Data communication equipment
4. Line test equipment

Part Number Code



Drawing

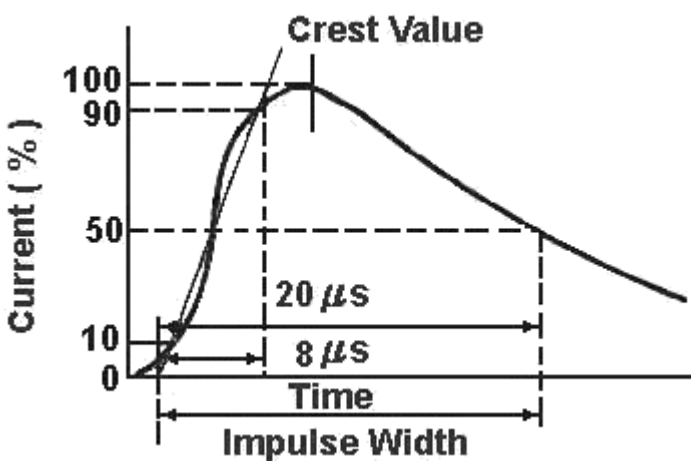


Items	Dimension	
	Spec	Tolerance
D	Ø5.5	± 0.4
T	6.0	± 0.4
L	27.0	Max
d	Ø0.6	± 0.05

Specification

Model Name	DC Breakdown Voltage (V)	Maximum Impulse Breakdown Voltage (V)		Maximum Impulse Discharge Current (8/20 μs) (KA)		Normal Alternating Discharge Current (A)		Impulse Life (10/1000 μs) (100A)	DC Holdover Voltage (V)	Minimum Insulation Resistance (GΩ)	Maximum Capacitance (pf)
	100V/s	100V/μs	1000V/μs	1 time	10 times	50Hz, 1sec	Single 9cycles	times	< 150ms	Note2	1MHZ
2R-070	70 ± 20%	500	600	15	10	5	65	500	52	10	1.5
2R-075	75 ± 20%	500	600						52	10	1.5
2R-090	90 ± 20%	500	600						52	10	1.5
2R-120	120 ± 20%	500	700						52	10	1.5
2R-130	130 ± 20%	500	700						52	10	1.5
2R-150	150 ± 20%	500	700						52	10	1.5
2R-230	230 ± 20%	500	700						80	10	1.5
2R-250	250 ± 20%	500	700						80	10	1.5
2R-300	300 ± 20%	700	900						150	10	1.5
2R-350	350 ± 20%	700	900						150	10	1.5
2R-400	400 ± 20%	800	1000	10	5	5	65	500	150	10	1.5
2R-470	470 ± 20%	900	1100						150	10	1.5
2R-600	600 ± 20%	1100	1300	10	5	5	10	100	150	10	1.5
2R-800	800 ± 20%	1300	1500						150	10	1.5
2R-1000	1000 ± 20%	1600	1800						150	10	1.5
2R-1200	1200 ± 20%	1800	2000						150	10	1.5
2R-1400	1400 ± 20%	2200	2400	10	5	5	5	100	150	10	1.5
2R-1600	1600 ± 20%	2400	2600						150	10	1.5
2R-2000	2000 ± 20%	2800	3000	10	5	5	5	100	150	10	1.5
2R-2500	2500 ± 20%	3300	3500						150	10	1.5
2R-3000	2828V-3600V	4300	4500	5	3	2 · 5	5	100	150	10	1.5
2R-3500	3500 ± 20%	4500	4800						150	10	1.5
2R-3600	3600 ± 20%	4800	5000						150	10	1.5

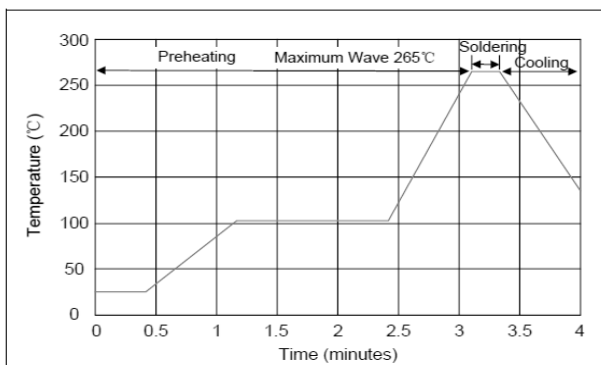
Electrical Rating

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

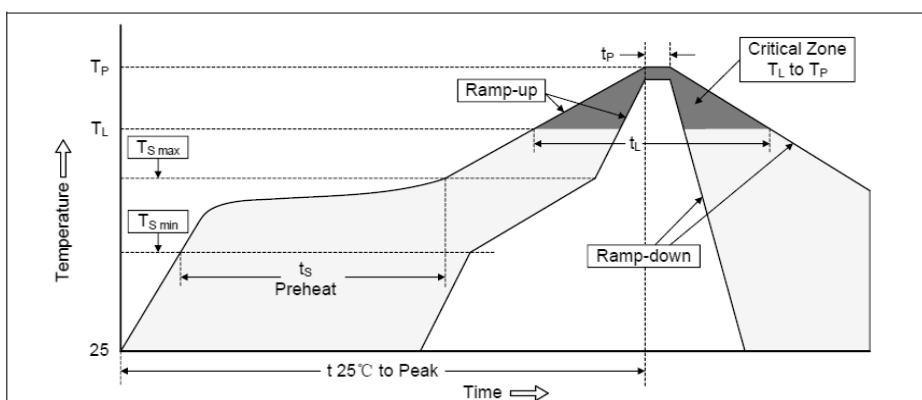
Recommended Soldering Conditions

Wave Soldering



Item	Conditions
Peak Temperature	265°C
Dipping Time	10 seconds
Soldering	1 time

Reflow Soldering

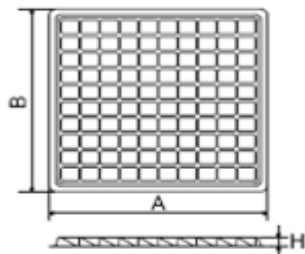


Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3°C/second max.
Preheat -Temperature Min ($T_{S\ min}$) -Temperature Max ($T_{S\ max}$) -Time (min to max) (t_S)	150°C 200°C 60-180 seconds
$T_{S\ max}$ to T_L -Ramp-up Rate	3°C/second max.
Time maintained above: -Temperature (T_L) -Time (t_L)	217°C 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

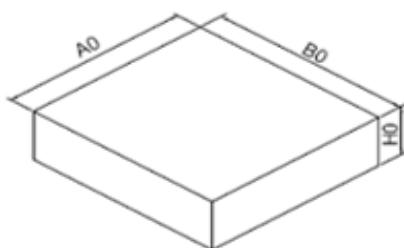
Axial Packing (Box)

Skin packing



Symbol	Dimension (mm)	
	Spec.	Tolerance
A	195	±2.0
B	165	±2.0
H	10.3	±0.5
Quantity: 100pcs		

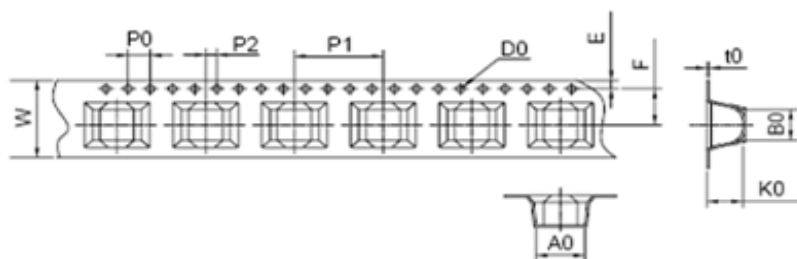
Inner box



A0	175.0	±2.0
B0	215.0	±2.0
H0	55.0	±2.0
Quantity: 500pcs		

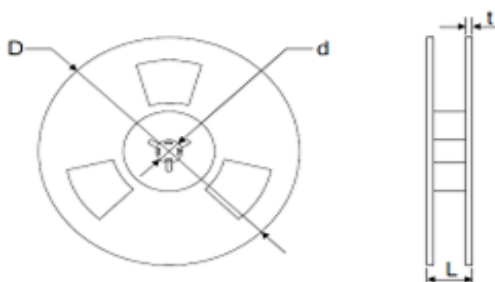
SMD Packing (Tape & Reel)

Tape



Symbol	Dimension (mm)	
	Spec.	Tolerance
W	16.00	±0.20
P0	4.00	±0.10
P1	16.00	±0.10
P2	2.00	±0.10
D0	1.55	±0.05
E	1.75	±0.10
F	7.50	±0.10
A0	8.80	±0.10
K0	6.20	±0.10
B0	6.35	±0.10
t0	0.50	±0.05

Reel



D	330.00	±2.00
d	13.00	±0.50
L	20.00	±2.00
t	2.00	±0.20
Quantity: 500pcs		

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