



Metal Oxide Varistors

RL2220A Series

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Features

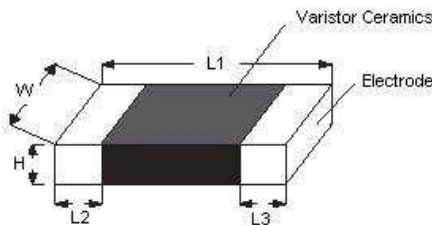
1. Excellent ESD clamping & Small Insertion Loss
2. High transient current capability, Fastest response time
3. Capacitance is designed to ultra-low value, which can be efficiently suitable to high speed data line.
4. EU-RoHS Compliance

Product Name

R	L	2	2	2	0	A	2	7	0	X
Brand Name		EIA 2220			Type A:	Varistor Voltage			Remarks	

Package Dimensions

Unit:mm



EIA	L1(mm)	W(mm)	H(mm)	L2&L3(mm)
2220	5.70±0.40	5.00±0.30	2.00	0.60±0.30

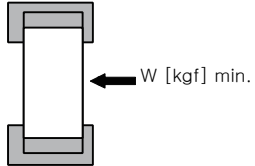
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Electrical Characteristics

Part Number	Working Voltage		Breakdown Voltage	Peak Current	Clamping Voltage	
	AC	DC	@ 1mA DC	8/20uS	8/20uS	
	VRMS	VDC	VB	I _p (MAX)	VC	A
RL2220A270K	17	22	24~30	2000A	42	1~10
RL2220A300K	19	24	27~33	2000A	47	1~10
RL2220A330K	20	26	29~36	2000A	54	1~10
RL2220A370K	21	27	33~40.5	2000A	60	1~10
RL2220A390K	24	30	35~42	2000A	65	1~10
RL2220A470K	28	36	42~52.5	2000A	77	1~10
RL2220A530K	30	42	47~58.5	2000A	85	1~10
RL2220A560K	35	45	51~62	2000A	90	1~10
RL2220A600K	36	47	53~66	2000A	98	1~10
RL2220A680K	40	56	61~75	2000A	110	1~10
RL2220A760K	45	60	68~84	2000A	120	1~10
RL2220A820K	50	65	74~92	2000A	135	1~10
RL2220A900K	52	68	80~100	2000A	150	1~10
RL2220A101K	60	85	90~110	2000A	165	2.5~10
RL2220A121K	75	100	108~132	2000A	200	2.5~10
RL2220A151K	95	125	135~165	2000A	250	2.5~10
RL2220A181K	115	150	162~198	2000A	300	5~10
RL2220A201K	130	170	184~225	2000A	340	5~10
RL2220A221K	140	180	198~242	2000A	360	5~10
RL2220A241K	150	200	216~264	2000A	395	5~10
RL2220A271K	175	225	243~297	2000A	455	5~10
RL2220A361K	230	300	324~396	2000A	595	5~10

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Electrical Rating

No	Item	Test Condition / Description	Requirement
1	Operation Range	1. -40°C ~ 85°C	-
2	Leakage current	Satisfaction to the specification, under 1uA	Applied voltage : specified working voltage
3	Capacitance	Satisfaction to the specification, under 1pF	Frquency & OSC level : 1MHz, 1.0Vrms
4	Solderability	More than 90% of the terminal electrode shall be covered with new solder.	1. Type of solder : H63A 2. Soldering Temp & Time : 230+/-5°C, 5+/-1 sec
5	Reflow soldering	1. No Serious mechanical damage 2. More than 50% of the terminal electrode shall be covered with new solder 3. Leakage Current :≤ 10uA	1. Type of solder : H63A 2. Temp & Time : max 260+/-5°C, min 10sec * Refer to the soldering profile of page 6
6	Humidity Load Test	1. No Serious mechanical damage 2. Leakage Current :≤ 10uA	Test Temp. & Relative Humidity & Time : 85+/- 5°C, 85 +/- 5% RH, Vw Applied, 500 +/- 12hrs
7	Thermal Shock	1. No Serious mechanical damage 2. Leakage Current :≤ 10uA	1. Step 1 : -40 +/- 5°C, Step 2 : 85 +/- 5°C 2. Cycle : 30min ± 3min, each 5 cycles
8	High Temp. Test	1. No Serious mechanical damage 2. Leakage Current :≤ 10uA	Temp. & time : 85+/-5°C , 1000 +/- 24hrs
9	Adhesive strength	1. No Serious mechanical damage under condition of 1005 : min 0.5kgf, 1608 : min 1.0kgf	
10	ESD	1. No mechanical damage after test 2. Leakage Current :≤ 10uA * ESD gun (IEC61000-4-2 standard) * C=150pF R=330Ω	1. Contact discharge * Voltage :+/-8kV(Level 4) * Number : 10 times in 10sec 2. Air discharge * Voltage :+/-15kV(Level 4) * Number : 10 times in 10sec

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