



Metal Oxide Varistors

RL1210A Series

Metal Oxide Varistors - RL1210A Series

Features

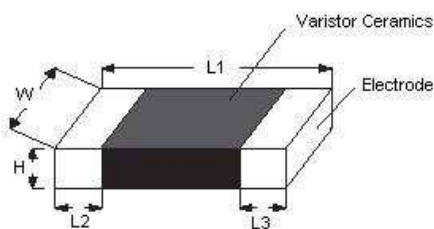
1. Excellent ESD clamping & Small Insertion Loss
2. High transient current capability, Fastest response time
3. Capacitance is designed to ultra-low value, which can be efficiently suitable to high speed data line.
4. EU-RoHS Compliance

Product Name

R	L	1	2	1	0	A	2	7	0	X
↓		↓				↓	↓			↓
Brand Name		EIA		Type		Varistor Voltage			Remarks	
		1210		A:						

Package Dimensions

Unit:mm



EIA	L1(mm)	W(mm)	H(mm)	L2&L3(mm)
1210	3.20±0.30	2.50±0.25	1.50	0.50±0.20

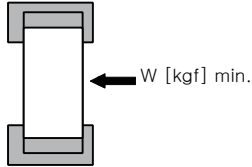
Metal Oxide Varistors - RL1210A Series

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
RL1206A270K	17	22	24~30	500A	42	1~10
RL1206A300K	19	24	27~33	500A	47	1~10
RL1206A330K	20	26	29~36	500A	54	1~10
RL1206A370K	21	27	33~40.5	500A	60	1~10
RL1206A390K	24	30	35~42	500A	65	1~10
RL1206A470K	28	36	42~52.5	500A	77	1~10
RL1206A530K	30	42	47~58.5	500A	85	1~10
RL1206A560K	35	45	51~62	500A	90	1~10
RL1206A600K	36	47	53~66	500A	98	1~10
RL1206A680K	40	56	61~75	500A	110	1~10
RL1206A760K	45	60	68~84	500A	120	1~10
RL1206A820K	50	65	74~92	500A	135	1~10
RL1206A900K	52	68	80~100	500A	150	1~10
RL1206A101K	60	85	90~110	500A	165	2.5~10
RL1206A121K	75	100	108~132	500A	200	2.5~10
RL1206A151K	95	125	135~165	500A	250	2.5~10

Metal Oxide Varistors - RL1210A Series

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	Frequency & 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

RuiLongYuan Electronics Co., Ltd.

- Reproducing and modifying information of the document is prohibited without permission from Ruilongyuan International Inc.
- Ruilongyuan International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Ruilongyuan International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Ruilongyuan International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Ruilongyuan International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Ruilongyuan International Inc. for any damages resulting from such improper use or sale.

Tel: +86-755-8290 8296

Fax: +86-755-8290 8002

E-mail: jack@ruilon.com