

Features

- ◆ Lead free type.
- ◆ Insulator over coat keeps excellent low and stable leakage current.
- ◆ Quick response time(<1ns).
- ◆ Low Clamping Voltage.
- ◆ Meet IEC 61000-4-2 standard.
 - Contact discharge mode:typical $\pm 15\text{kV}$
 - Air discharge mode:typical $\pm 20\text{kV}$



Applications

- ◆ Application for Mother Board, Notebook, cellular Phone, PDA, handheld device, DSC, DV, Scanner, and Set-Top Box etc.

Part Numbering

CVR	0603	RS08	150	T
A	B	C	D	E

A: ASIM Serise Name

B: Dimension

C: V_{DC}

D: 150:15PF

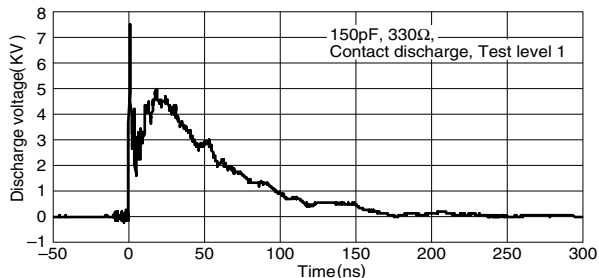
E: Tape

Specifications

Part Number	Rated Voltage V_{DC} (V)	V_{BR} (V) min	V_{Clamp} (V) typ	C_j (pF) @1MHz, 0V typ	Leakage Current I_L (μA)
CVR0603RS08150T	8.0	20.0	50.0	15.0	10.0
CVR0603RS30150T	30.0	33.0	55.0	15.0	20.0
CVR1005RS033300T	3.3	9.0	50.0	20.0	20.0
CVR1005RS05100T	5.0	20.0	70.0	8.0	20.0
CVR1005RS06030T	6.0	32.0	70.0	2.50	20.0
CVR1005RS06100T	6.0	23.0	65.0	10.0	20.0
CVR1005RS06300T	6.0	10.0	50.0	33.0	20.0
CVR1005RS06101T	6.0	14.0	22.0	100.0	20.0
CVR1005RS09030T	9.0	20.0	72.0	3.00	20.0
CVR1005RS09300T	9.0	10.0	50.0	30.0	20.0
CVR1005RS12030T	12.0	22.0	72.0	3.00	20.0
CVR1005RS18030T	18.0	24.0	75.0	3.00	20.0
CVR1005RS18100T	18.0	20.0	72.0	10.0	20.0
CVR1005RS24030T	24.0	28.0	78.0	3.00	20.0
CVR1005RS35030T	35.0	38.0	80.0	3.00	20.0
CVR1608RS12030T	12.0	25.0	75.0	3.00	20.0
CVR1608RS18100T	18.0	24.0	70.0	10.0	20.0
CVR1608RS24030T	24.0	28.0	75.0	3.00	20.0
CVR1608RS48100T	48.0	54.0	120.0	10.0	20.0

Electrostatic absorption charateristic

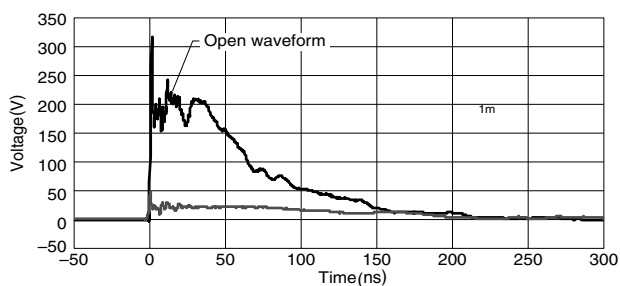
Discharge voltage waveform



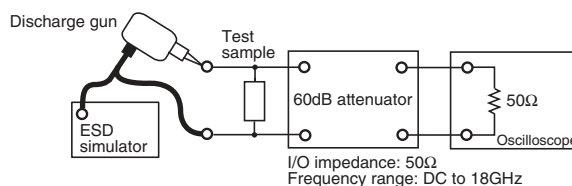
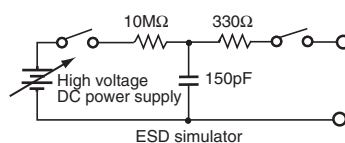
Current wave parameter [IEC61000-4-2]

level	ESD Charging voltage (kV)	Discharge 1 peak current (A)	Rise time (ns)
1	2	7.5	0.7 to 1.0
2	4	15	0.7 to 1.0
3	6	22.5	0.7 to 1.0
4	8	30	0.7 to 1.0

Discharge voltage waveform

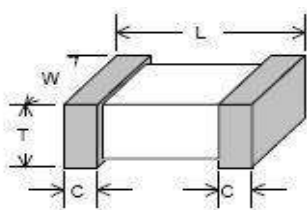


CAPACITANCE vs. FREQUENCY CHARACTERISTICS



IMPEDANCE vs. FREQUENCY CHARACTERISTICS

Dimensions



Unit:mm

NO.	L	W	T	C
0603	0.60±0.03	0.30±0.03	0.30±0.03	0.10 min
1005	1.00±0.15	0.50±0.10	0.50±0.10	0.25±0.15
1608	1.60±0.03	0.80±0.10	0.80±0.10	0.32±0.15

General Technical Data

Operating Temperature	-55 ~ +125℃
Storage Temperature	-55~ +125℃
Response Time	<1 ns
Solderability	245±5℃,3±1sec.

Environmental Performance

Item	Specifications	Test Condition
Bias Humidity	$\Delta V_v / V_v \leq \pm 10\%$	90%RH,40℃,Working Voltage,1000hrs
Thermal Shock		-55℃ to 125℃,30min.cycle,5 cycles
Full Load Voltage		Working Voltage ,125℃,1000hrs
Solder Leach Resistance	(1) $\Delta V_v / V_v \leq \pm 10\%$ (2) $I_L \leq 1nA$ at Working Voltage (3)Solder Wetting Area $\geq 95\%$	260±5℃,10 ±1sec.