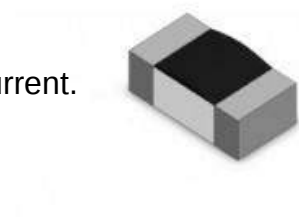


Features

- ◆ Lead free type.
- ◆ Compact size for 0603
- ◆ 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

CV	4	xx	002	BW
A	B	C	D	E

A: ASIM Serise Name

B: Dimension 4: 0603

C: V_{DC}

D: 002: 0.2PF

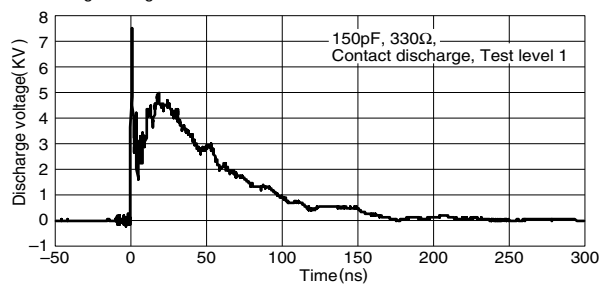
E: Tape

Specifications

Part Number	Rated Voltage V_{DC} (V)	Trigger Voltage V_{ESD} (V) min	C_j (pF) @1MHz, 0V max	Leakage Current I_L (μA)
CV4JP002BW	3.3	250.0	0.05	1.0
CV4JE002BW	5.0	250.0	0.05	1.0
CV4JF002BW	6.0	250.0	0.05	1.0
CV4JI002BW	9.0	250.0	0.05	1.0
CV4AB002BW	12.0	250.0	0.05	1.0
CV4AD002BW	14.0	250.0	0.05	1.0
CV4AE002BW	15.0	250.0	0.20	1.0
CV4AH002BW	18.0	250.0	0.20	1.0
CV4BD002BW	24.0	250.0	0.20	1.0
CV4CB002BW	32.0	250.0	0.20	1.0

Electrostatic absorption charateristic

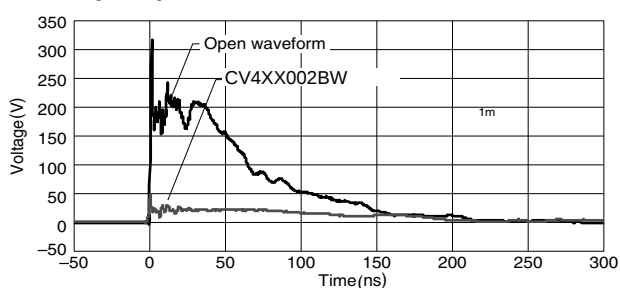
Discharge voltage waveform



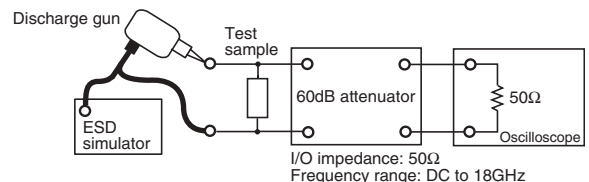
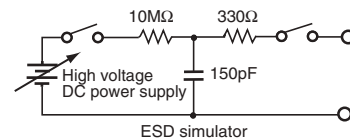
Current wave parameter [IEC61000-4-2]

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

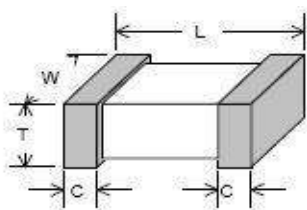


CAPACITANCE vs. FREQUENCY CHARACTERISTICS



IMPEDANCE vs. FREQUENCY CHARACTERISTICS

Dimensions



Unit:mm

Size EIA(EIAJ)	(0603)
L	1.60±0.15
W	0.80±0.15
T	0.80±0.15
C	0.30±0.20

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≥95%	260±5℃,10 ±1sec.