Features

- ◆ Lead free type.
- ◆ Compact size for 0402
- ◆ 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 ±15kv
  - --Air discharge mode:typical ±20kv

Applications

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

Part Numbering

CV	0402	VT6	002	BW
A	B	C	D	E

A:ASIM Serise Name

B:Dimension

C:V_{DC}

D: 002:0.2PF

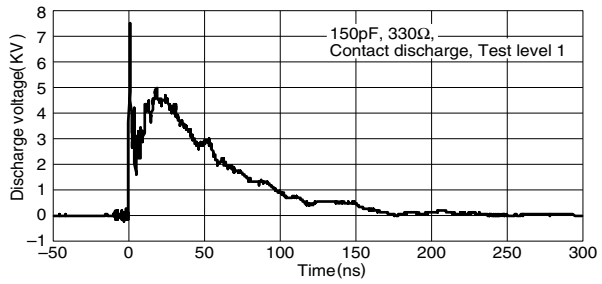
E: Tape

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)
CV0402VT6002BW	6.0	52.0	50.0	0.20	10.0
CV0402VT6020T	6.0	52.0	70.0	2.00	10.0
CV0402VT6030T	6.0	30.0	70.0	2.50	3.0
CV0402VT6300T	6.0	8.0	30.0	30.0	20.0
CV0402VT6330T	6.0	18.0	52.0	33.0	3.0
CV0402VT6101T	6.0	11.0	23.0	100.0	20.0
CV0402VT9030T	9.0	20.0	80.0	3.00	3.0
CV0402VT9300T	9.0	11.0	32.0	30.0	20.0

Electrostatic absorption charateristic

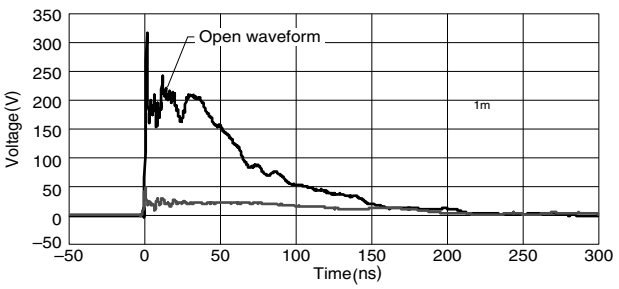
Discharge voltage waveform



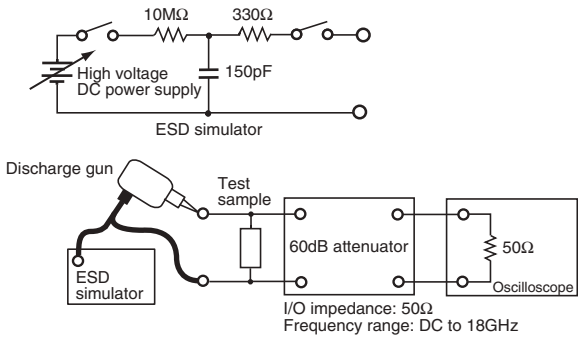
Current wave parameter **[IEC61000-4-2]**

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

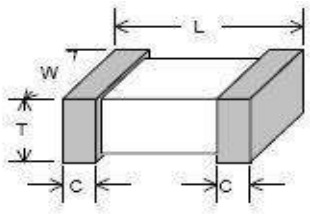


CAPACITANCE vs. FREQUENCY CHARACTERISTICS



IMPEDANCE vs. FREQUENCY CHARACTERISTICS

Dimensions



Unit:mm

Size EIA(EIAJ)	(0402)
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	ΔVv/ Vv ≤±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)ΔVv/ Vv ≤±10% (2)IL≤1nA at Working Voltage (3)Solder Wetting Area≥95%	260±5℃,10 ±1sec.