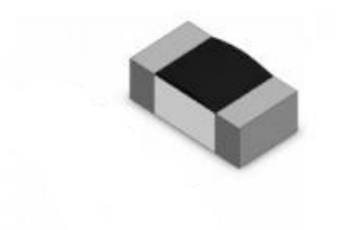


◆ Features

1. Lead free type.
 2. Compact size for 0402
 3. Insulator over coat keeps excellent low and stable leakage current.
 4. Quick response time(<1ns).
 5. Low Clamping Voltage.
 6. 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.

◆ How to Order

<u>CV</u>	<u>3</u>	<u>XX</u>	<u>002</u>	<u>BW</u>
(1)	(2)	(3)	(4)	(5)

(1) CV: Series Name

(2) Size: 0402

(3) XX: V_{DC}

(4) 002: 0.2PF (+100%~-50%)

(5) Packing: Tape & Reel

◆ Package

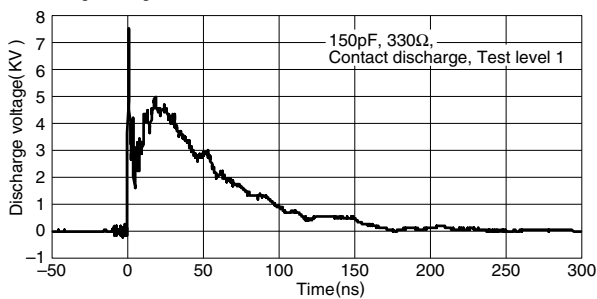
Size EIA(EIAJ)	1005
Standard Packing Quantity(pcs / reel)	10,000

◆ Specifications

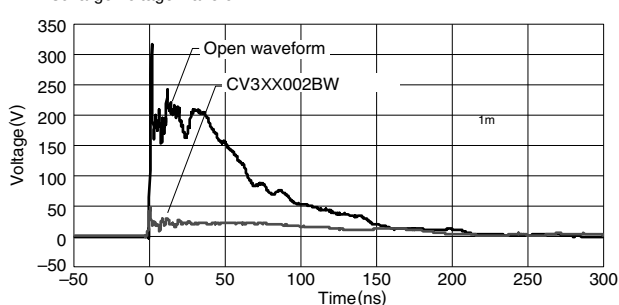
Part Number	Rated Voltage V_{DC} (V)	Trigger voltage ESD (V)	$V_{Clamp,typ}$ ESD (V)	C_j (1MHz,0V) pF	Leakage Current (I_L) μA	Package quantity
CV3P002BW	3.3	200	30.0	0.1	10.0	10,000
CV3JE002BW	5.0	330	50.0	0.05-0.15	10.0	10,000
CV3JF002BW	6.0	330	50.0	0.05-0.15	10.0	10,000
CV3AB002BW	12.0	330	30.0	0.05-0.20	10.0	10,000
CV3AD002BW	14.0	330	30.0	0.05-0.30	2.0	10,000
CV3AE002BW	15.0	330	50.0	0.05-0.30	2.0	10,000
CV3AH002BW	18.0	330	50.0	0.05-0.30	2.0	10,000
CV3BD002BW	24.0	310	50.0	0.05-0.20	1.0	10,000
CV3CJ002BW	30.0	310	50.0	0.05-0.20	1.0	10,000
CV3CF002BW	36.0	310	50.0	0.05-0.20	1.0	10,000
CV3DJ002BW	40.0	310	55.0	0.05-0.20	1.0	10,000

Electrostatic absorption characteristic

Discharge voltage waveform

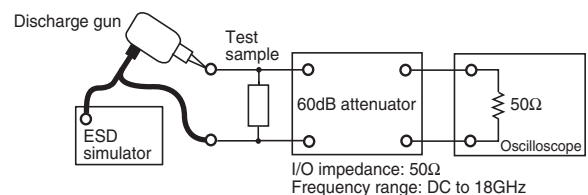
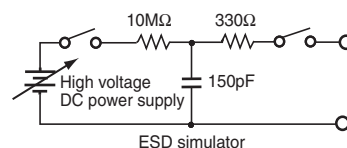


Discharge voltage waveform



Current wave parameter [IEC61000-4-2]

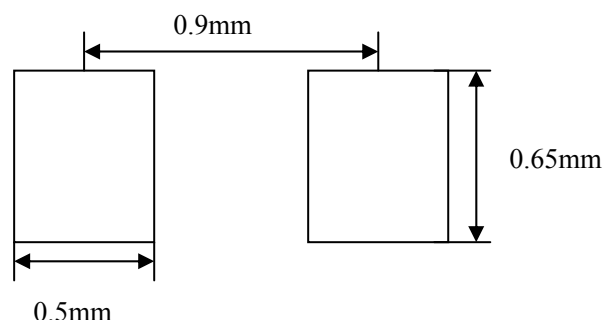
level	ESD Charging voltage (kV)	Discharge 1 peak current (A)	Rise time (ns)
1	2	7.5	0.7 to 1.0
2	4	15	0.7 to 1.0
3	6	22.5	0.7 to 1.0
4	8	30	0.7 to 1.0



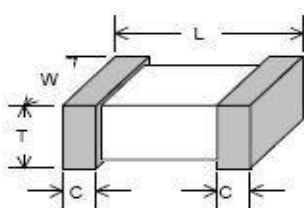
◆ Dimensions Unit:mm

Size EIA(EIAJ)	(0402)
L	1.00±0.15
W	0.50±0.10
T	0.50±0.10
C	0.25±0.15

◆ PAD Dimension



Solder thickness 0.15 to 0.2mm



◆ 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.