

◆ 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 $\pm 20\text{kV}$

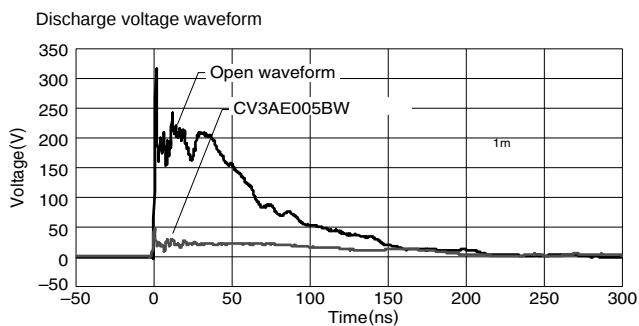
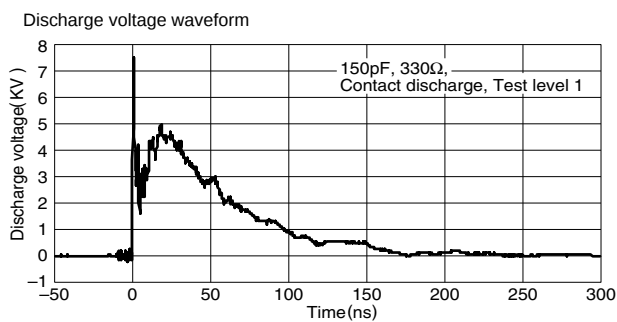
◆ Applications

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

◆ Specifications

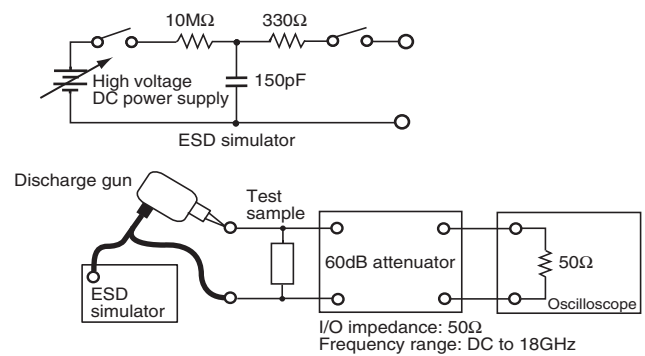
Part Number	Rated Voltage V_{DC} (V)	Trigger voltage ESD (V)	$V_{Clamp,typ}$ ESD (V)	C_j (1MHz,0V) pF $\pm 0.3pF$	Leakage Current (I_L) μA	Package quantity
CV3AE005BW	15.0	90-120	250	0.5	10.0	10,000

Electrostatic absorption characteristic



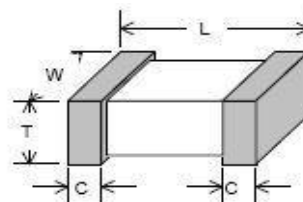
Current wave parameter [IEC61000-4-2]

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

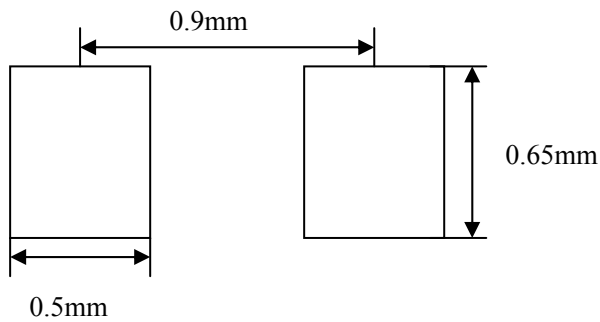


◆ Dimensions Unit:mm

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)IL≤1nA at Working Voltage (3)Solder Wetting Area≥95%	260±5℃,10 ±1sec.

◆ Package

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