

◆ 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

$\frac{CV}{(1)}$ $\frac{3}{(2)}$ $\frac{XX}{(3)}$ $\frac{028}{(4)}$ $\frac{T}{(5)}$

(1) CV: Series Name

(2) Size: 0402

(3) XX: V_{DC}

(4) 028: 2.5PF (+100%~-50%)

(5) Packing: Tape & Reel

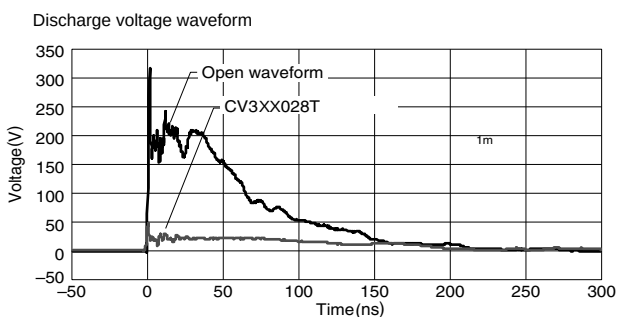
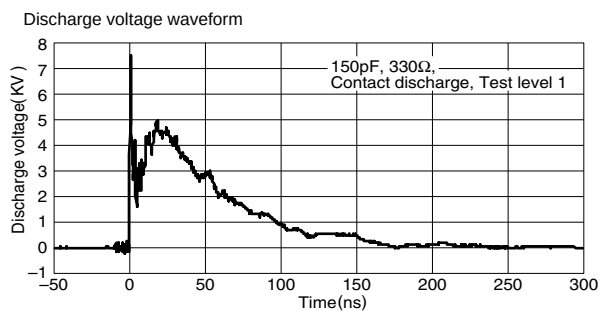
◆ Package

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

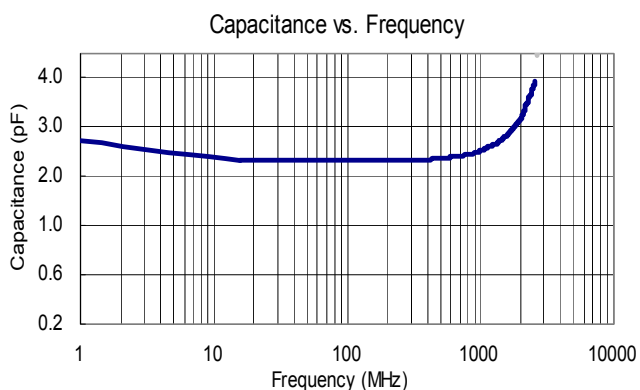
◆ Specifications

Part Number	Rated Voltage V_{DC} (V)	$V_{BR,min}$ (1mA) V	$V_{Clamp,type}$ ESD (V)	C_j (1MHz,0V) pF	Leakage Current (I_L) μA	Package quantity
CV3P028T	3.3	20.0	130.0	2.5	10.0	10,000
CV3JE028T	5.0	20.0	130.0	2.5	10.0	10,000
CV3JF028T	6.0	100.0	160.0	2.5	20.0	10,000
CV3JI028T	9.0	100.0	160.0	2.5	20.0	10,000
CV3AB028T	12.0	100.0	160.0	2.5	20.0	10,000
CV3AD028T	14.0	100.0	160.0	2.5	20.0	10,000
CV3AE028T	15.0	100.0	160.0	2.5	20.0	10,000
CV3AH028T	18.0	100.0	160.0	2.5	20.0	10,000
CV3BJ028T	20.0	60.0	160.0	2.5	20.0	10,000
CV3BD028T	24.0	60.0	160.0	2.5	20.0	10,000
CV3BF028T	26.0	60.0	160.0	2.5	20.0	10,000
CV3CJ028T	30.0	100.0	160.0	2.5	20.0	10,000
CV3CF028T	36.0	100.0	160.0	2.5	20.0	10,000
CV3DB028T	42.0	100.0	160.0	2.5	20.0	10,000

Electrostatic absorption characteristic

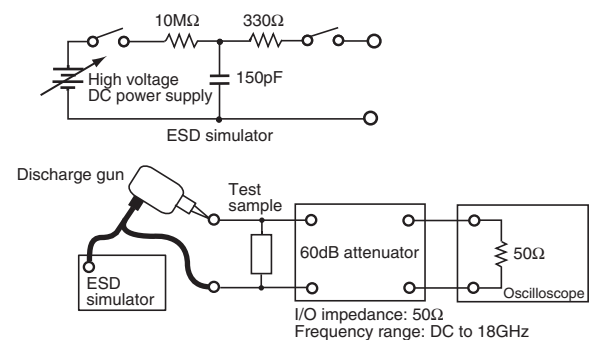


CAPACITANCE vs. FREQUENCY CHARACTERISTICS

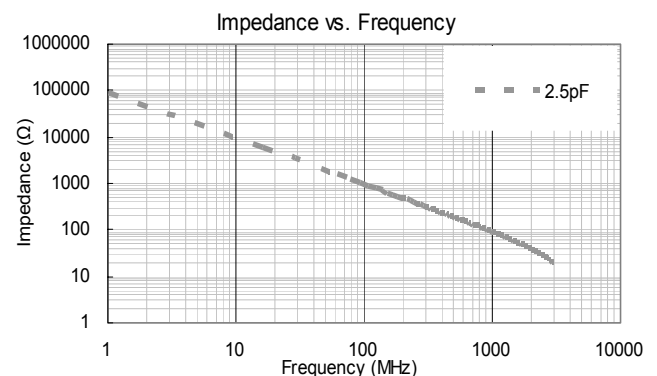


Current wave parameter [IEC61000-4-2]

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



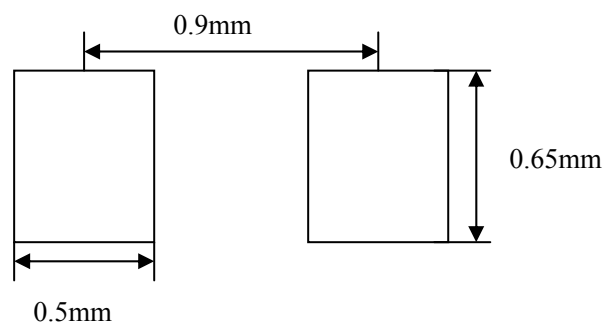
IMPEDANCE vs. FREQUENCY CHARACTERISTICS



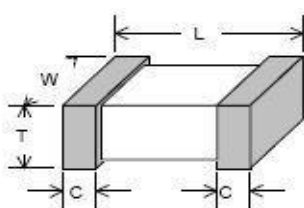
◆ Dimensions Unit:mm

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≥95%	260±5℃,10 ±1sec.