

◆ Features

- 1.Compact size for 0603
- 2.Insulator over coat keeps excellent low and stable leakage current.
- 3.Quick response time(<1ns).
- 4.Low Clamping Voltage.
- 5.Meet IEC 61000-4-2 standard.
 - Contact discharge mode:typical $\pm 8\text{kV}$,max $\pm 15\text{kV}$
 - Air discharge mode:typical $\pm 15\text{kV}$,max $\pm 25\text{kV}$



◆ Applications

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

◆ How to Order

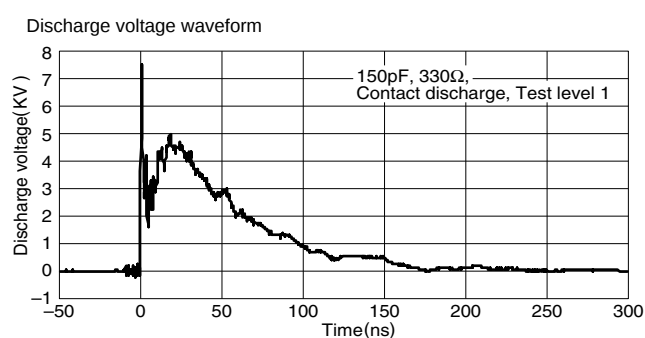
<u>CV</u>	<u>4</u>	<u>BD</u>	<u>028</u>	<u>T</u>
(1)	(2)	(3)	(4)	(5)

- (1)CV : Series Name
 (2)Size:0603
 (3) BD: V_{DC} 24V Max
 (4)028:2.0PF(+100%~-50%)
 (5) Packing: Tape & Reel

◆ Specifications

Part Number	Rated Voltage V_{DC} (V)	V_{BR} (1mA) V	C_{typ} (1MHz,0V) pF	Leakage Current (I_L) μA	Package quantity
CV4BD028T	24.0	100~130	2.0	20.0	4,000

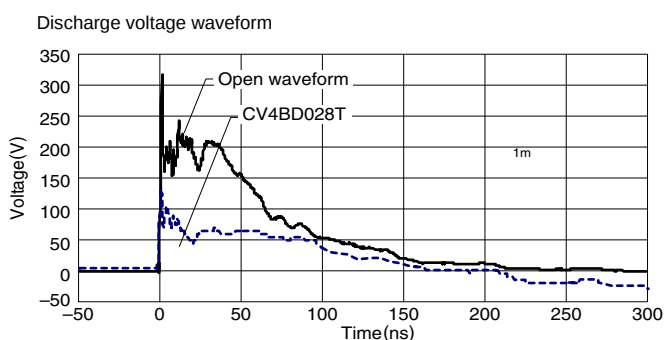
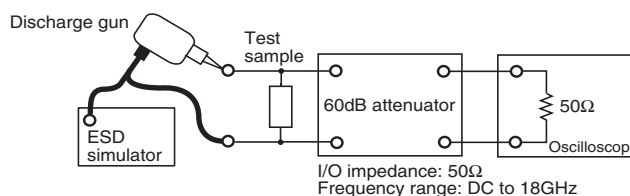
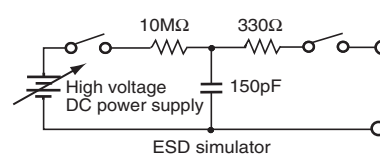
Electrostatic absorption characteristic



Current wave parameter [IEC61000-4-2]

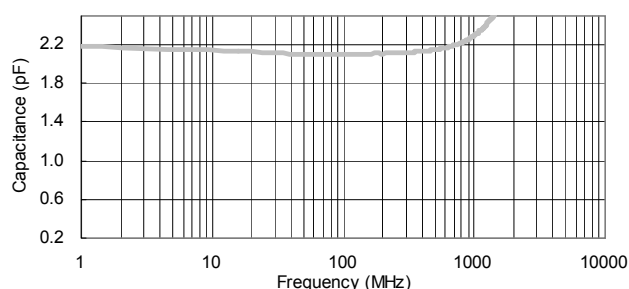
level	ESD Charging voltage (kV)	Discharge 1 peak current (A)	Rise time (ns)
1	2	7.5	0.7 to 1.0
2	4	15	0.7 to 1.0
3	6	22.5	0.7 to 1.0
4	8	30	0.7 to 1.0

The test circuit



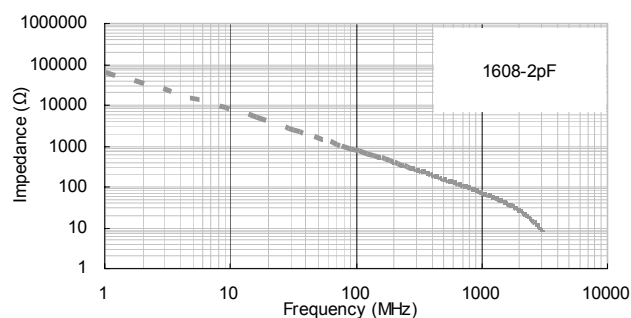
CAPACITANCE vs. FREQUENCY CHARACTERISTICS

Capacitance vs. Frequency



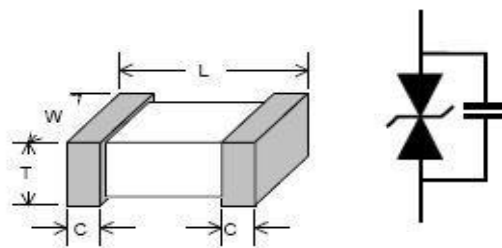
IMPEDANCE vs. FREQUENCY CHARACTERISTICS

Impedance vs. Frequency



◆ 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 $\geq 95\%$	260±5℃, 10 ±1sec.

◆ Package

Size EIA(EIAJ)	0603
Standard Packing Quantity(pcs / reel)	4,000