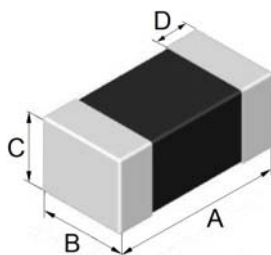


SMD Transient Voltage Suppressors

TVSD0603ECAF-Series

1. Dimension



Series	A (mm)	B (mm)	C (mm)	D (mm)
0603	1.60±0.10	0.80±0.10	0.60±0.10	0.30±0.10

2. Part Numbering

TVSD 0603 ECA F 240 - 0R1 P □

A B C D E F G H

A: Series	TVS Diode
B: Dimension	
C: Category Code	ESD Protection of Antenna
D: Product Grade	General Grade
E: Voltage Code	240=Working Voltage 24V
F: Characteristic Code	0R1=Capacitance Value 0.1 pF
G: Characteristic Unit Code	P=pF
H: Inner Code	

3. Specification

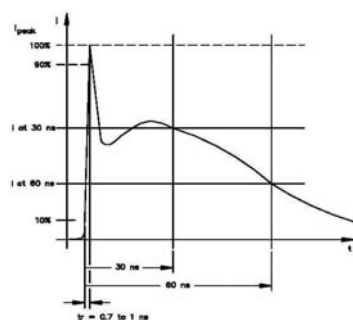
TAI-TECH Part Number	Working Voltage V _{DC} (V) max.	Typical ESD Trigger Voltage V _{trigger} (V) typ.	Typical ESD Clamping Voltage at 60ns V _C (μA) typ.	Leakage Current (at Initial State) I _{LDC} (μA)	Leakage Current (after ESD Test) I _{LDCA} (μA)	Cap. Value at 1MHz (pF)
TVSD0603ECAF240-0R1P	24	400	30	< 0.1	< 1.0	0.05pF (max. 0.1pF)

Note:

1. The ESD clamping voltage was measured by IEC61000-4-2 level 4 and ±15KV contact, ±15KV air.
2. The leakage current was measured at V_{DC}.
3. The maximum ESD clamping voltage at 30ns can be within 100V.

3-1. Reference Data			
ITEM	Symbol	Value	Unit
Response time	T_{RISE}	<0.5	ns
Operation ambient temperature	T_{OPT}	-55~+125	°C
Storage temperature	T_{STG}	-55~+150	°C
Complies with standard	ESD	IEC61000-4-2 Level 4 and $\pm 15KV$ Contact, $\pm 15KV$ Air	
Body		Glass fiber epoxy resin	
End termination		Ag/Ni/Sn	
Packaging		Reel	
Complies with RoHs standard		Yes	
Lead content		<1000	ppm
Marking		None	

4. ESD Wave Form

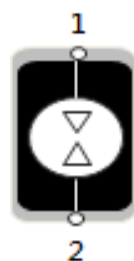


IEC61000-4-2 Standards

SEVERITY LEVEL	AIR DIRCHARGE	DIRECT DISCHARGE
1	2KV	2KV
2	4KV	4KV
3	8KV	6KV
4	15KV	8KV

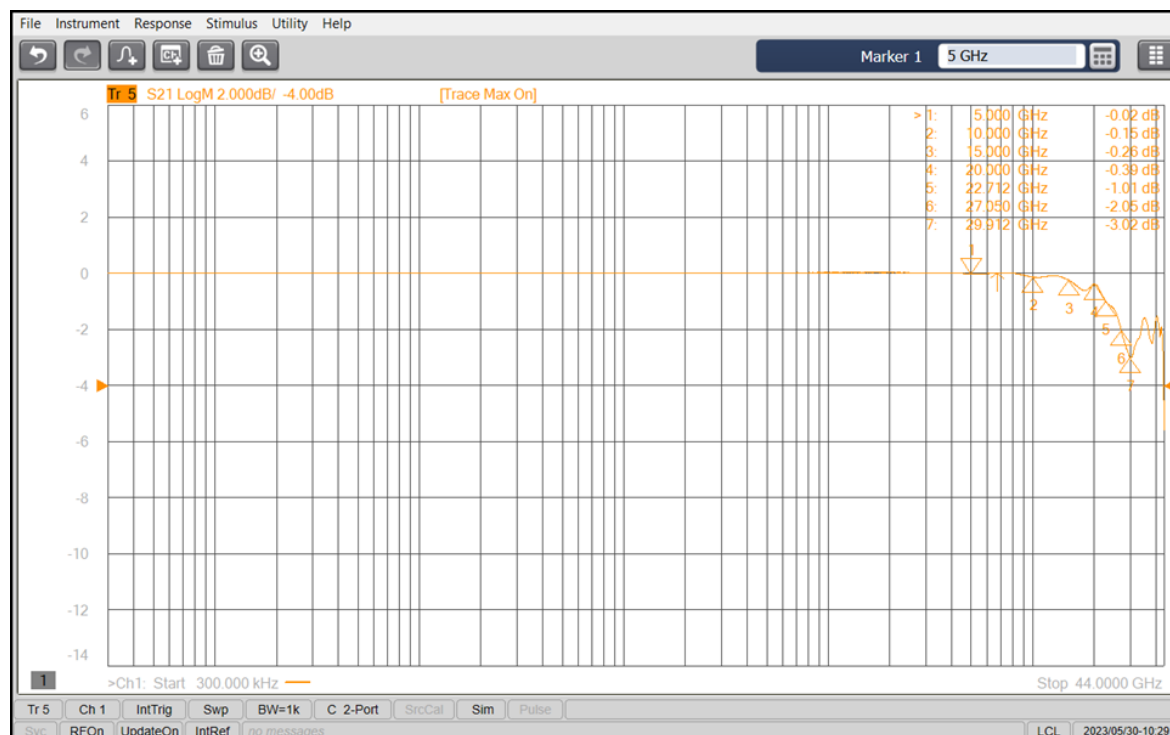
IEC61000-4-2 compliant ESD current pulse waveform

Pin Configuration

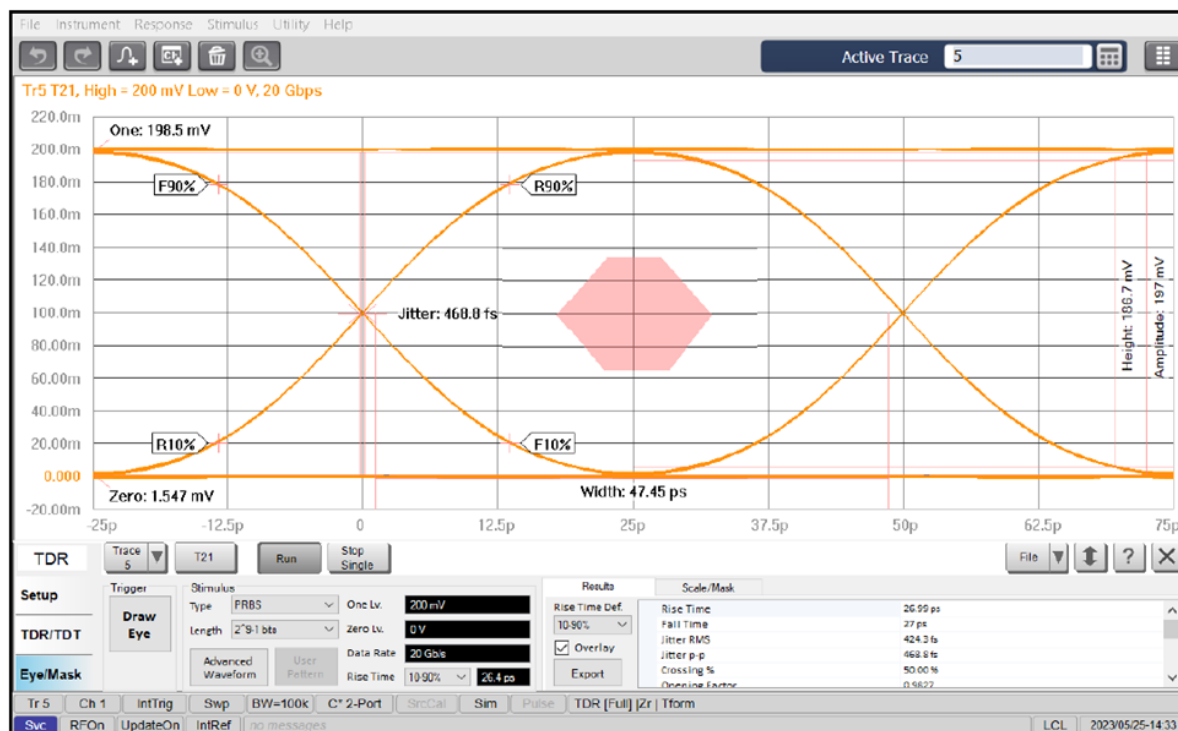


(TOP View)

5. Insertion Loss and Eye Pattern (20Gbps) Testing Results



Insertion loss



Eye pattern