

Features

- ESD protection for high speed data lines to IEC61000-4-2 ESD contact discharge 8KV, max 15KV IEC61000-4-2 ESD air discharge 15KV, max 25KV
- Multilayer structure
- Surface mount
- Extremely low capacitance
- Very low leakage current
- Fast response time
- Bi-directional ESD protection
- Lead free solder termination
- The best ESD protection for high frequency, low voltage applications

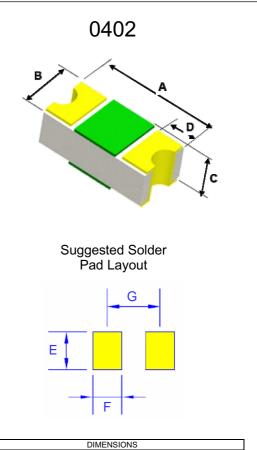
Application

- High Definition Multi-Media Interface (HDMI)
- Digital Visual Interface (DVI)
- Display Port Interface
- Unified Display Interface (UDI)
- MDDI Ports
- Gigabit Ethernet
- USB2.0 and IEEE1394 interface
- * Caution: This component is designed for signal line protection only, not intended to be used under bias, not for application with a power line.

Environmental Specifications

- Operation temperature: -40~90°C
- Moisture Resistance, Steady state: MIL-STD-833, Method 1004.7, 85% RH,85°C,1000hrs
- Thermal Shock: MIL-STD-202,Method 107G,-55℃ to150℃,30 min cycle,10 cycles.
- Vibration: MIL-STD-202F, Method 201A, (10 to 55 to 10HZ, 1 min. cycle, 2hrs each in X-Y-Z)
- Chemical Resistance: ASTM D-543, 4hrs @40°C, 3 solutions(H₂O, detergent solution, deluxer)
- Solder leach resistance and terminal adhesion: Per EIA-576 test

Multilayer Polymer ESD Suppressor



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.035	.047	0.90	1.20			
В	.017	.026	0.45	0.65			
С	.010	.018	0.25	0.45			
D	.006	.014	0.15	0.35			
E	.024	.028	0.60	0.70			
F	.017	.022	0.45	0.55			
G	.033	.037	0.85	0.95			





Electrical Characteristics

Electrical Characteristics								
Parameter	Symbol	Conditions	Min	Тур	Max	Units		
Continuous operating voltage	V _{DC}				12	V		
Trigger voltage	V _T	IEC61000-4-2 8KV contact discharge		300		V		
Clamping voltage	Vc	IEC61000-4-2 8KV contact discharge		20		V		
Leakage current	١ _L	12V V _{DC}		0.10	100	nA		
Capacitance	CP	VR = 0V, f = 1MHz		0.15	0.3	pF		
Operating Temperature			-40		90	°C		
Storage Temperature			-55		120	°C		
ESD pulse withstand	Pulses	IEC61000-4-2 8KV contact discharge	100					

Notes:

1, Trigger and clamping voltage measure per IEC 61000-4-2, 8KV contact discharge method

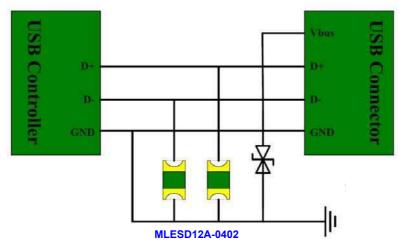
Typical MLESD clamping for +8KV pulse per IEC61000-4-2





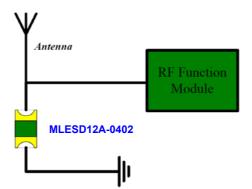
Design Recommendations for USB2.0

For USB2.0 port



Design Recommendations for Antenna

For antenna line





Ordering Information

Device	Packing			
Part Number-TP	Tape&Reel: 10Kpcs/Reel			

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