



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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
- Multilaver 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

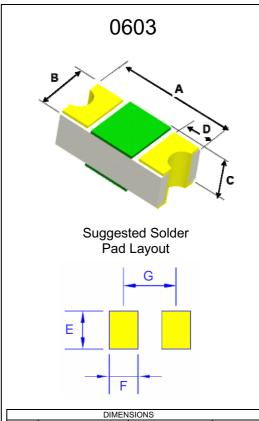
Application

- 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	.057	.069	1.45	1.75				
В	.027	.038	0.70	0.95				
O	.011	.019	0.27	0.47				
D	.008	.020	0.20	0.50				
Ε	.035	.040	0.90	1.00				
F	.023	.028	0.60	0.70				
G	.051	.056	1.30	1.40				

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Electrical Characteristics

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Parameter	Symbol	Conditions	Min	Тур	Max	Units			
Continuous operating voltage	V_{DC}				24	V			
Trigger voltage	V _T	IEC61000-4-2 8KV contact discharge		500		V			
Clamping voltage	Vc	EC61000-4-2 8KV contact discharge		36		V			
Leakage current	ΙL	24V V _{DC}		0.20	10	nA			
Capacitance	C _P	VR = 0V, f = 1MHz		0.15	0.3	pF			
Operating Temperature			-40		90	°C			
Storage Temperature			-55		150	°C			
ESD pulse withstand	Pulses	EC61000-4-2 8KV contact discharge	2000						

Notes:

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

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

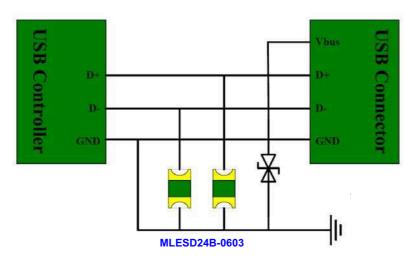


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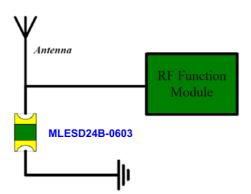
Design Recommendations for USB2.0

For USB2.0 port



Design Recommendations for Antenna

For antenna line





Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel5Kpcs/Reel

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