

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Stackpole Electronics, Inc.

Low and Ultra Low Capacitance ESD Suppressor

Resistive Product Solutions

Features:

- Very quick response time (< 1nS)
- ESDU series has ultra-low capacitance < 0.05pF
- Lower cost ESD series has capacitance <0.2pF
- Ultra low leakage current (< 1nA)
- No Signal Distortion
- RoHS compliant

Applications:

- High speed data ports (USB 2.0, IEEE1394)
- Notebook PC's, cell phones, PDA's
- Digital cameras, printers, scanners
- Plasma display panels, LCD TVs, HDTV's



Electrical Specifications									
Туре	Package Size	Continuous Operating Voltage (Max)	ESD Capability (1)	Trigger Voltage (Typical) (2)	Clamping Voltage (Typical)	Capacitance (3)	Leakage Current (Typical)	Response Time	ESD Pulse Withstand (Typical) (4)
ESD(U)02A3V3R17V	0402	3.3 VDC	Direct Discharge: 8kV Air Discharge: 15kV	150 V	17 V	ESD Series < 0.2pF ESD Series < 0.05pF	< 1 nA	< 1nS	> 1000 pulses
ESD(U)03A3V3R17V	0603								
ESD(U)02A3V3R25V	0402			250 V	25 V				
ESD(U)03A3V3R25V	0603								
ESD(U)02A5V5R17V	0402	5.5 VDC		150 V	17 V				
ESD(U)03A5V5R17V	0603								
ESD(U)02A5V5R25V	0402			250 V	25 V				
ESD(U)03A5V5R25V	0603								
ESD(U)02A12VR25V	0402	12 VDC		250 V	25 V				
ESD(U)03A12VR25V	0603	12 VDC							
ESD(U)02A24VR25V	0402	24 VDC							
ESD(U)03A24VR25V	0603								

- 1. ESD capability meets the requirements of IEC 61000-4-2.
- 2. Trigger measurement made using Transmission Line Pulse Method.
- 3. Capacitance measured from 1MHz 1.8GHz.
- $4.\ \ Under\ IEC\ 61000-4-2\ level\ 4\ (8kV\ contact\ discharge,\ 15kV\ air\ discharge).$

Mechanical Specifications						
Type / Code	Body Length	Body Width	Body Height	Top Termination	Bottom Termination	Unit
ESD(U)02 (0402)	0.039 ± 0.004	0.020 ± 0.002	0.014 ± 0.002	0.008 ± 0.004	0.010 ± 0.004	inches
	1.00 ± 0.10	0.50 ± 0.05	0.35 ± 0.05	0.20 ± 0.10	0.25 ± 0.10	mm
ESD(U)03 (0603)	0.061 ± 0.004	0.031 ± 0.004	0.018 ± 0.004	0.012 ± 0.008	0.012 ± 0.008	inches
	1.55 ± 0.1	0.8 ± 0.1	0.45 ± 0.1	0.3 ± 0.2	0.3 ± 0.2	mm

Performance Characteristics					
Test	Test Method	Acceptable Parameter			
Operating Temperature	-55C to 125C				
Full Load Voltage	1000 hours at 25C				
Bending	3mm deflection	Lookena Current . 104			
Resistance to Solder Heat	MIL-STD-202 Method 210 260 ± 5C for 10 ± 1 sec	Leakage Current < 1uA			
Moisture Resistance	MIL-STD-883 Method 1004.7 85% RH, 85C for 1000 hrs				
Thermal Shock	MIL-STD-202 Method 107 5 cycles from -55C to 125C				
Solderability	MIL-STD-202 Method 208 245 ± 5C, 2 ± 0.5sec dwell, Sn96.5/Ag3.0/Cu0.5 solder	95% coverage			

