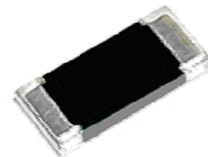


- Features:**
- Very quick response time (< 1nS)
  - ESDU series has ultra-low capacitance < 0.05pF
  - Lower cost ESD series has capacitance <0.2pF
  - Ultra low leakage current (< 1nA)
  - No Signal Distortion
  - RoHS compliant



- 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																					
Type	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	< 1 nA	< 1nS	> 1000 pulses												
ESD(U)03A3V3R17V	0603			250 V	25 V																
ESD(U)02A3V3R25V	0402			150 V	17 V																
ESD(U)03A3V3R25V	0603			250 V	25 V																
ESD(U)02A5V5R17V	0402	5.5 VDC		150 V	17 V	ESD Series < 0.05pF				< 1 nA	< 1nS	> 1000 pulses									
ESD(U)03A5V5R17V	0603			250 V	25 V																
ESD(U)02A5V5R25V	0402			150 V	17 V																
ESD(U)03A5V5R25V	0603			250 V	25 V																
ESD(U)02A12VR25V	0402	12 VDC		Direct Discharge: 8kV Air Discharge: 15kV	250 V	25 V							ESD Series < 0.05pF	< 1 nA	< 1nS	> 1000 pulses					
ESD(U)03A12VR25V	0603																				
ESD(U)02A24VR25V	0402	24 VDC			Direct Discharge: 8kV Air Discharge: 15kV	250 V											25 V	ESD Series < 0.05pF	< 1 nA	< 1nS	> 1000 pulses
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	Leakage Current < 1uA
Full Load Voltage	1000 hours at 25C	
Bending	3mm deflection	
Resistance to Solder Heat	MIL-STD-202 Method 210 260 ± 5C for 10 ± 1 sec	
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

**How to Order**

