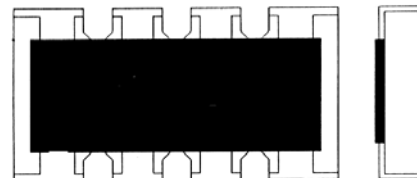


- Features:**
- Very quick response time (< 1nS)
 - ESAU series has ultra-low capacitance < 0.05pF
 - Lower cost ESA series has capacitance <0.2pF
 - Ultra low leakage current (< 1nA)
 - No signal distortion
 - RoHS compliant

- 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
ESA(U)34A3V3R17V	0603x4	3.3 VDC	Direct Discharge: 8kV Air Discharge: 15kV	150 V	17 V	ESA series < 0.2pF	< 1 nA	< 1nS	> 1000 pulses
ESA(U)34A3V3R25V	0603x4			250 V	25 V				
ESA(U)34A5V5R17V	0603x4	5.5 VDC		150 V	17 V	ESAU series < 0.05pF			
ESA(U)34A5V5R25V	0603x4			250 V	25 V				
ESA(U)34A12VR25V	0603x4	12 VDC	250 V	25 V					
ESA(U)34A24VR25V	0603x4	24 VDC							

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).

How to Order

Stackpole Type	Size	Tolerance	Operating Voltage	Packaging	Clamping Voltage
ESA	34	A	3V3	R	17V
Type	Size	Tolerance	Voltage	Size Qty / Reel	Clamping
ESA = Low Capacitance <0.2pF	34 = 0603 x 4	A: Suitable for IEC 61000-4-2	3V3 = 3.3V	0603 x 4 5,000	17V
ESAU = Ultra Low Capacitance <0.05pF		C: Suitable for IEC 61000-4-2 & AEC-Q200	5V5 = 5.5V		25V
			12V		
			24V		

Mechanical Specifications						
Type / Code	Body Length L	Body Width W	Body Height H	Top Termination a	Bottom Termination b	Units
ESA(U)34 (0603)	0.126 +/- 0.008 3.20 +/- 0.2	0.059 +/- 0.008 1.50 +/- 0.2	0.024 +/- 0.004 0.60 +/- 0.1	0.012 +/- 0.008 0.30 +/- 0.2	0.012 +/- 0.006 0.30 +/- 0.15	inches 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