1.0 x 0.5mm SMD SURGE PROTECTOR

ABSP10





FEATURES:

- Outstanding ESD protection
- Very low leakage current
- Bi-directional
- Extremely low capacitance for high speed data transmission applications

APPLICATIONS:

- High speed data ports
- USB 2.0
 - DVI
- IEEE 1394
- High speed ethernet

HDMI

STANDARD SPECIFICATIONS:

ABRACON P/N:	ABSP10
Operating Temperature:	-55 °C to +125 °C
Storage Temperature:	-40 °C to +85 °C

Capacitance	Leakage Current	Peak Voltage	Clamping Voltage	Rated Voltage
0.15pF typ.	1μA max.	500V typ.	30V typ.	D.C. 12V
0.25pF max.			100V max.	

Capacitance:	The capacitance value shall be measured under the conditions specified below: Frequency: 1MHz±10%, Voltage: 1Vrms±0.2Vrms, Temperature: 25°C±2°C		
Leakage Current:	The leakage current value shall be measured under the conditions specified below: Voltage: 6Vdc, Temperature: 25°C±2°C		
Peak Voltage:	The peak voltage value shall be measured under the following conditions: ESD test conditions: IEC61000-4-2, 8kV contact discharge.		
Clamping Voltage:	The clamping voltage value shall be measured at 30ns after initiation of pulse and measured under the conditions specified below: ESD test conditions: IEC61000-4-2, 8kV contact discharge.		

ELECTRICAL PERFORMANCE:

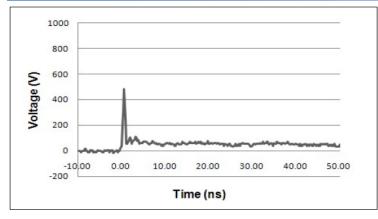


Figure 1. ESD Suppression Voltage Waveform

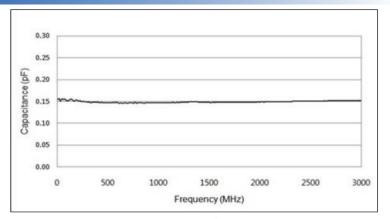


Figure 2. Capacitance



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ELECTRICAL PERFORMANCE: - continued:

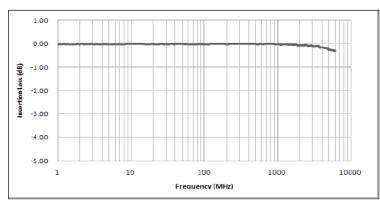


Figure 3. Insertion Loss Diagram

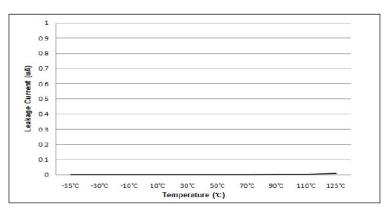


Figure 4. Change in Leakage Current according to temperature

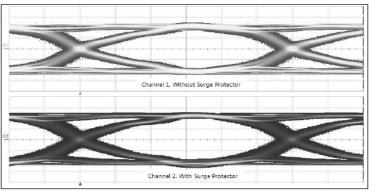


Figure 5. Eye Diagram

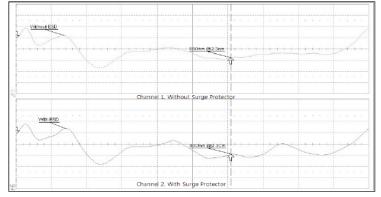


Figure 6. TDR Test Result

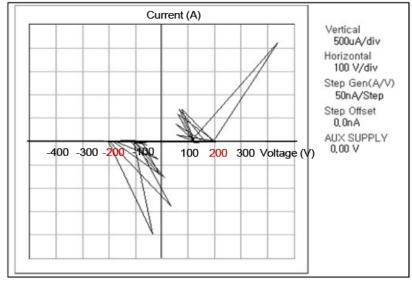


Figure 7. I-V Curve Characteristics





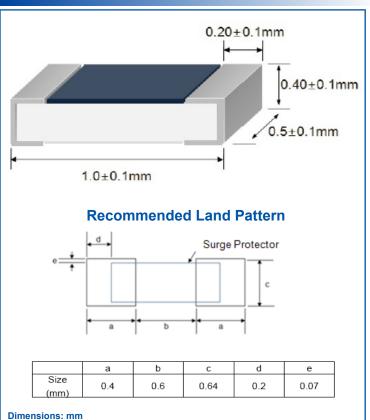
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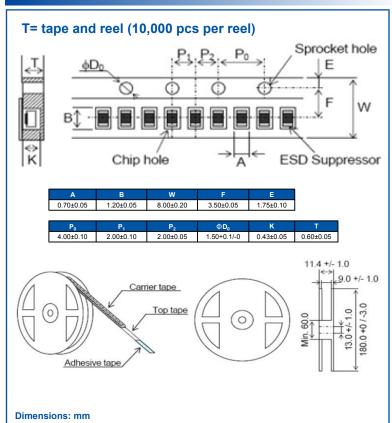




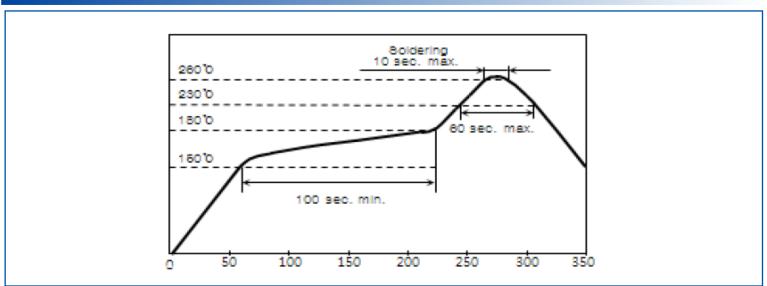
OUTLINE DRAWING:



TAPE & REEL:



REFLOW PROFILE:



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