

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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RS-232 Optical Isolator - 4kV Isolation, Port Power

Model 232SPHI4





PRODUCT FEATURES

- 4,000V, 2-way optical isolation
- DB25 male and DB25 female connectors
- Port-powered OR use optional external 12VDC power supply

Model 232SPHI4 isolates and protects RS-232 equipment from lightning surges, accidental high voltage shorts, and ground loops. The isolator supports RS-232 data signals up to 115.2 Kbps as well as RTS and CTS handshake lines. The 232SPHI4 provides 4000 Volts isolation between sides — twice the rating of most isolators. DTE device connections are made through a DB-25 female. DCE device connections are made through a DB-25 male.

The two sides of the isolator are powered independently to maintain isolation. Both sides can draw power from the RS-232 data and handshake lines, eliminating external powering requirements in nearly all systems.

If the isolator is to be used with low power ports or when no handshake lines are available, external power can be supplied to either side or both. This versatile powering configuration minimizes the number of supplies required by the overall system.

ORDERING INFORMATION

MODEL NUMBER	CHANNELS PROTECTED	DTE CONNECTOR	DCE CONNECTOR	ISOLATION
232SPHI4	4	DB25 Female	DB25 Male	4,000 V

ACCESSORIES

SMI6-12-V-P230-C1 - Power Supply, 12 VDC 6 Watt, 2.5MM Plug, International AC Input, International AC Blades

232CAMR - DB9 Male to DB25 Female, 6 in (15.2 cm)

232CAMS - DB9 Female to DB25 Male, 6 in (15.2 cm)

232AMF5 - DB25 Male to DB25 Female, 6 ft. (1.8 m)

SPECIFICATIONS

SERIAL TECHNOLOGY				
Data Rate	115.2 kbps maximum			
RS-232				
Connector	DB25 female (DTE)			
Connector	DB25 male (DCE)			
Signals	TD, RD, RTS, CTS			
Transmission Mode	Asynchronous, half or full duplex, point-to-point			
POWER				
Source	Port-powered from RS-232 data and handshake lines			
Optional External Source	12 VDC			
External Connections	2.5mm power jacks (tip positive) or DB25 connectors pins 11 (+) and 12 (-)			
ISOLATION				
Volts/Duration	4,000 Volts RMS isolation for 1 minute (may be limited by external supply)			
MECHANICAL				
Dimensions	10.4 x 5.8 x 2.4 cm (4.1 x 2.3 x 0.95 in)			
Minimum Air Clearance between DTE & DCE Sides:	5 mm (0.197 in)			
Minimum Creepage Distance between DTE & DCE Sides:	8 mm (0.315 in)			

SPECIFICATIONS - continued

ENVIRONMENTAL				
Operating Temperature	0 to +70 °C			
Storage Temperature	-55 to 125 °C			
Operating Humidity	10 to 90% Non-Condensing			
MTBF	351896			
MTBF Calc. Method	Parts Count Reliability Prediction			
APPROVALS / CERTIFICATIONS - 232SPHI4				
FCC Part 15, CISPR, EN55032				
CE				
EN 61000-6-1: 2007 Generic Standards for Residential, Commercial and Light- Industrial Environments				
EN 61000-4-2: 2009 Electro-Static Discharge (ESD) EN 61000-4-3: 2006 +A1 +A2 +IS1 Radiated Field Immunity (RFI)				
EN 61000-4-4: 2012 Electrical Fast Transients-Burst Immunity (EFT)				

All product specifications are subject to change without notice. 232SPHI4 2917ds

