BB-9SPOP2

RS-232 2.5 kV Optical Isolator

Features

- 2,500 V, 2-way optical isolation
- RS-232 on DB9 female (DTE) and male (DCE) connectors
- Data rates up to 115.2 kbps
- Port-powered on both sides, no external power supply required

Introduction

Model BB-9SPOP2 is a port-powered, two-channel isolator with a 2,500 Volts protection level. It optically isolates both the RS-232 Transmit Data and Receive Data lines and RS-232 equipment from lightning surges, accidental high voltage shorts, and ground loops. RS-232 data signals TD and RD are supported at up to 115.2 kbps.

Specifications

Serial Technology	
RS-232	
Data Rate	115.2 kbps, max.
RS-232 Connectors	DB9 female (DTE) DB9 male (DCE)
RS-232 Signals	TD, RD
Transmission Mode	Asynchronous, half or full duplex, point-to-point
Isolation	
Volts / Duration	2,500 Volts RMS isolation for 1 minute
Power	
Source	Port powered from both sides: DTE side - DTR & RTS lines. DCE side - DCD, DSR & CTS lines.
Mechanical	
Dimensions	6.1 x 3.3 x 1.7 cm (2.4 x 1.3 x 0.66 in)
Mounting	In-line installation
Weight	36.3 g (0.08 lb)
Environmental	
Operating Temperature	0 to +70 °C
Storage Temperature	-55 to +125 °C
Operating Humidity	0 to 95%, non-condensing
Meantime Between Failures (MTBF)	
MTBF	674717 hours
Calculation Method	MIL217F Parts Count Reliability Prediction
Regulatory – Approvals / Standards / Directives	
Approvals	FCC Part 15, CISPR, CE
CE - Directives	2014/30/EU – Electromagnetic Compatibility Directive (ECD) 2011/65/EU – amended by (EU) 2015/863 Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU – Waste Electrical and Electronic Equipment (WEEE)
CE - Standards	**EMC:** EN 55032 Class B - Electromagnetic Compatibility of Multimedia Equipment – Emission Requirements EN 55024 - Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurement
Standards - other	EN 55032+ AC - Class A Emissions

Ordering Information

Model No.	Channels Protected	DTE Connector	DCE Connector	Isolation
BB-9PSPOP4	2	DB9 Female	DB9 Male	2 kV

Accessories – Sold Separately

BB-9PAMF6 – Serial adapter cable, DB9 male / DB9 female, 1.8 m (6 ft)

BB-MMNM9 – Null modem adapter, DB9 male / DB9 male

BB-232HESP– RS-232 surge protector

Dimensions

3.33 cm
1.3 in

1.7 cm
0.66 in

6.1 cm
2.4 in

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