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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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CN-LAMBDA/4-2.2...

COAXTRAB Surge Voltage Protection for Mobile Phone and Broadband Communication Systems

TRABTECH

Data Sheet 2431_en_A

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Description

The CN-LAMBDA/4-2.2... with N-type connector protects radio devices against surge voltage. Placed on both sides of the device being protected, transient voltages are prevented from damaging equipment. With its high energy-absorbing capacity, the CN-LAMBDA/4-2.2... greatly reduces system failure when using exposed antenna systems.

The Lambda/4 technology provides excellent protection with limited signal degradation. Compatible with 0.82 to 2.2 GHz signals, the adapter is ideal for protecting mobile phones and satellite location systems.

For maximum protection, install a CN-LAMBDA/4-2.2... at each coaxial input and output connector to protect a device against both lightning strikes and transient voltage picked up by the cable. The adapter includes a seal for mounting through a 16 mm diameter hole in a bulkhead. An optional mounting bracket allows mounting to a plate. Grounding is through the bulkhead, optional bracket or separate wire (up to 4 AWG/25 mm²) attached to the grounding lug (requires user-supplied M8 screw).

Phoenix Contact offers a full line of surge protection products. For additional information, visit our website at www.phoenixcon.com/trabtech.

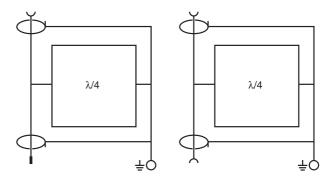


Figure 1 Function Diagrams

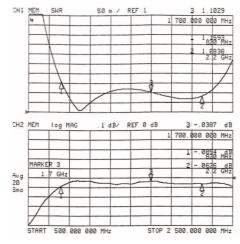


Figure 2 Typical VSWR and Insertion Loss



Make sure to always use the latest documentation. It can be downloaded at www.download.phoenixcontact.com.



Ordering Data

Products

Description	Туре	Order No.	Pcs./Pkt
COAXTRAB, Protective adapter for antenna connection, socket-socket connector	CN-LAMBDA/4-2.2-BB	2800024	1
COAXTRAB, Protective adapter for antenna connection, plug-socket connector	CN-LAMBDA/4-2.2-SB	2800025	1

Accessories

Description	Туре	Order No.	Pcs./Pkt
CN-UB Assembly Bracket, 90°, 50 mm	CN-UB/MP-90DEG-50	2803137	1

Technical Data

General Data	
Weight	215 g (0.47 lb.)
Degree of protection	IP 68
77.0	
RF Specifications	
Frequency	0.82-2.2 GHz
VSWR (typical/maximum)	1.1/1.2
Insertion Loss (typical/maximum)	0.05/0.15 dB
Return Loss (typical/maximum)	-26.4/-20.8 dB
RF Power	$0.5 \text{ kW}_{\text{AVG}}/4 \text{ kW}_{\text{PK}}$
Surge Protection	
Maximum discharge surge current I _{max} (8/20 μs waveform)	60 kA _{PK}
Nominal discharge surge current I _n (8/20 µs waveform)	50 kA
Let-through V _{PK} /μJ (8/20 μs waveform)	12 V/15 μJ @ 6 kV/3 kA
I _{imp} (10/350 μs waveform)	20 kA
Approvals	
CE	EN

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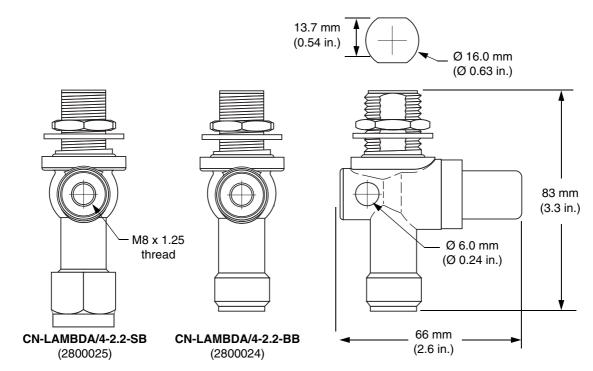


Figure 3 CN-LAMBDA/4-2.2... dimensions

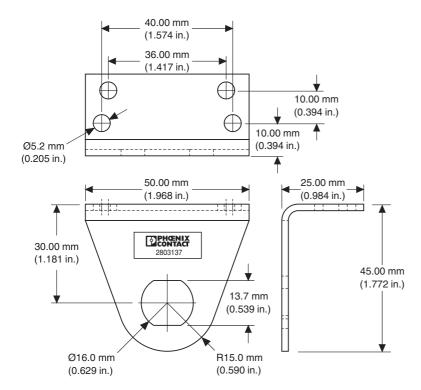


Figure 4 CN-UB/MP-90DEG-50 dimensions