CN-LAMBDA/4-5.9-…



COAXTRAB Surge Voltage Protection for Mobile Phone and Radio Relay Systems

TRABTECH

Data Sheet
2315_en_D

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1 Description

The CN-LAMBDA/4-5.9-… with N-type connector protects radio devices against surge voltage. Placed between the antenna and radio, transient voltages are prevented from damaging equipment. With its high energy-absorbing capacity, the CN-LAMBDA/4-5.9-… greatly reduces system failure when using exposed antenna systems.

The Lambda/4 technology provides excellent protection with limited signal degradation. Compatible with 2.4 to 5.9 GHz signals, the adapter is ideal for protecting mobile and cordless phones and satellite location systems.

For maximum protection, place an adapter at each end of the cable to protect 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 mm^2) 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.

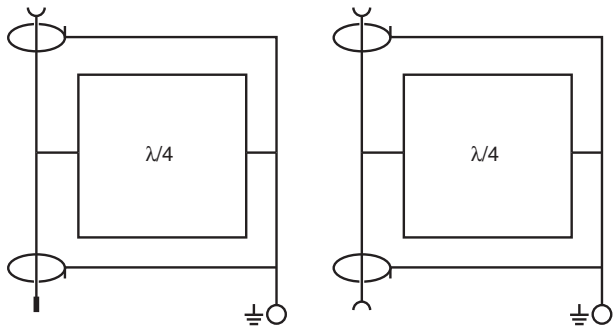


Figure 1 Function Diagrams

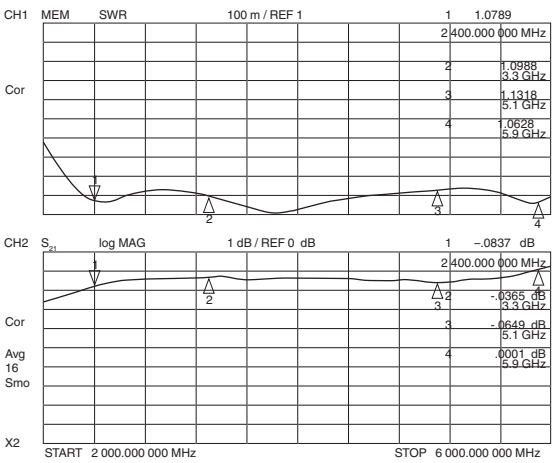


Figure 2 Typical VSWR and Insertion Loss

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

2 Ordering Data

Products

Description	Type	Order No.	Pcs./Pkt
COAXTRAB, Protective adapter for antenna connection, female-female connector	CN-LAMBDA/4/5.9-BB	**2838490**	1
COAXTRAB, Protective adapter for antenna connection, male-female connector	CN-LAMBDA/4/5.9-SB	**2800023**	1

Accessories

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

3 Technical Data

General Data	
Weight	140 g (0.31 lb.)
Degree of protection	IP 68

RF Specifications	
Frequency	2.4-5.9 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 kW_{AVG}/4 kW_{PK}

Surge Protection	
Maximum discharge surge current I_{max}	60 kA_{PK} (8/20 µs)
Nominal discharge surge current I_n	50 kA_{PK} (8/20 µs)
Let-through voltage	11 V/9µJ @ 6 kV/3 kA; 1.2 x 50/8x20 µs waveform
I_{imp} (10/350) µs	20 kA

Approvals	
CE	EN

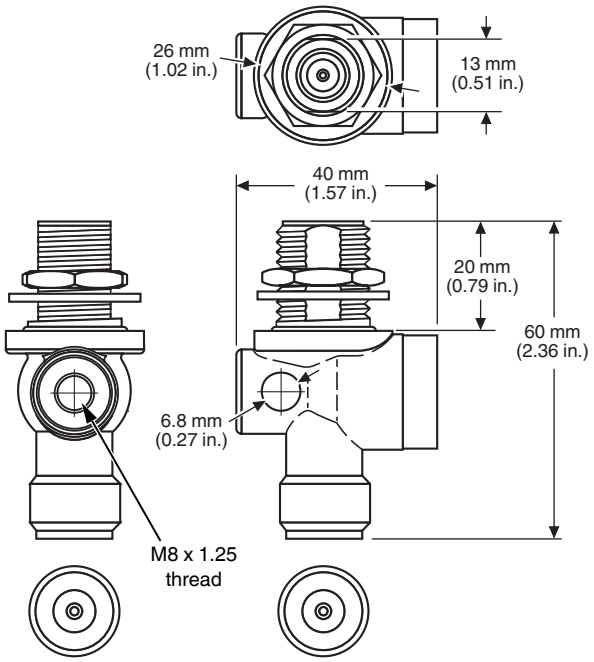


Figure 3 CN-LAMBDA/4-5.9-BB dimensions

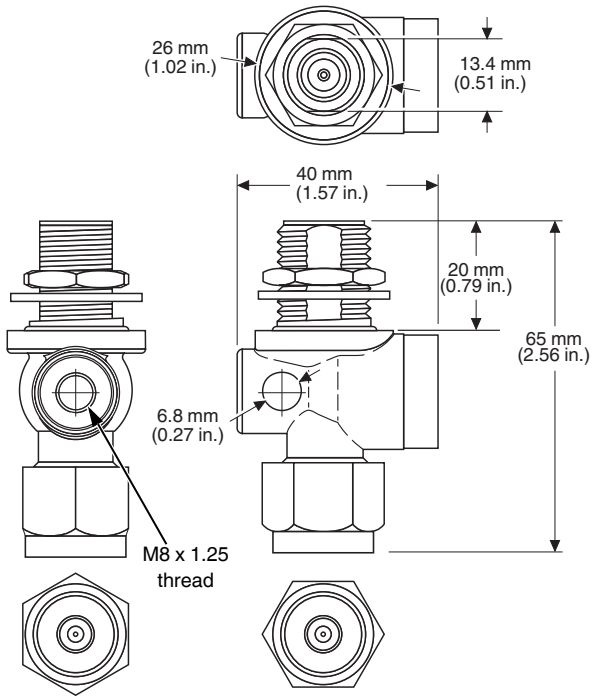


Figure 4 CN-LAMBDA/4-5.9-SB dimensions

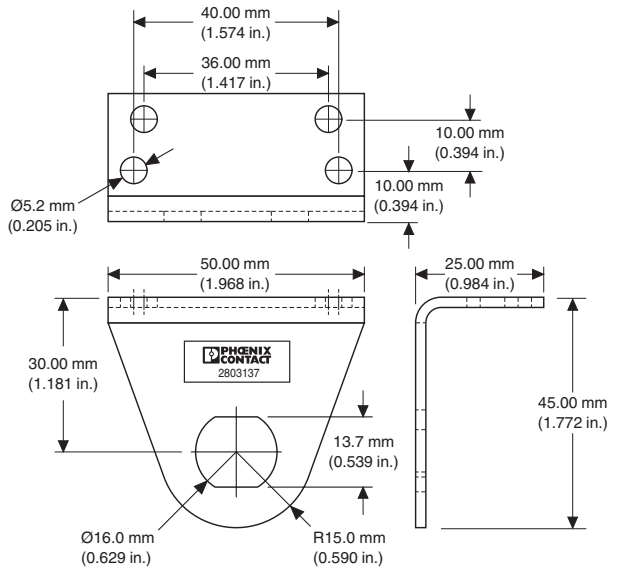


Figure 5 CN-UB/MP-90DEG-50 dimensions

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