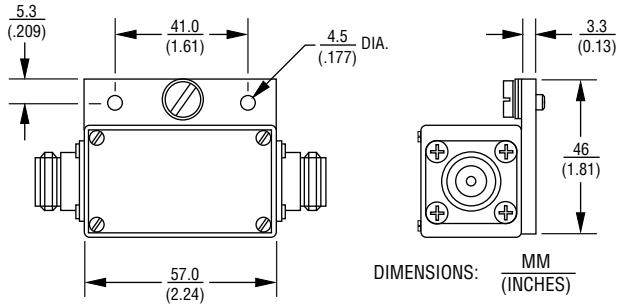
1965 Series
50 Ohm Coaxial Surge Protector
INSTALLATION INSTRUCTIONS

BOURNS®

Technical Data

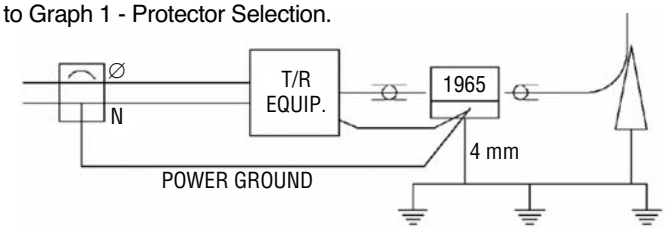


How to Order

Part No.	Description
1965-xx-A00	N(f) and N(f)
1965-xx-A01	N(f) and N(m)
1965-xx-A04	BNC(f) and BNC(f)
1965-xx-A05	BNC(f) and BNC(m)
1965-xx-A12	UHF(f) and UHF(f)

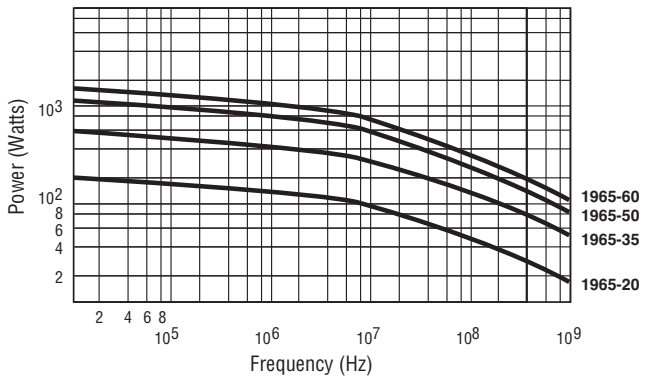
xx = DC Sparkover (x10 V)
(f) = female
(m) = male

1. When the Model 1965 arrester is used for protection of radio transmitter equipment, first review that the proper arrester model (voltage rating) has been selected. The radio transmission power, frequency, and system VSWR (including VSWR contribution of the arrester) are the variables that must be identified. Refer to Graph 1 - Protector Selection.
2. The arrester should be located as close as practical to the equipment being protected; typically less than 3 m (10 ft.). Single-point grounding, as shown in the following schematic, will improve the overall protection if the arrester is to be located at some distance from the equipment.



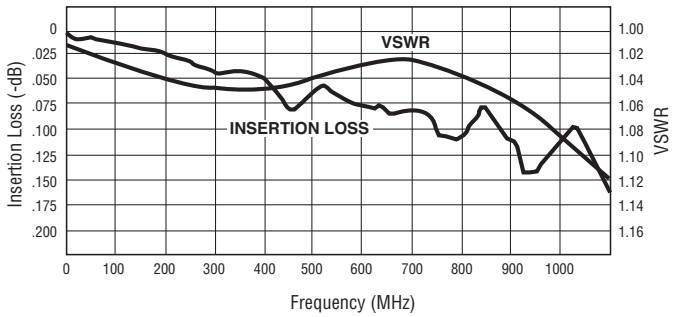
3. The arrester is symmetrical and bidirectional and may be oriented in either direction – either end may be used for the input or the output.
4. The arrester ground plate should be secured directly to an earth-grounded bus or mounting surface. The grounding conductor to the earthing system should be 4 mm (AWG 6) or larger and not exceed 3 m in length. If the protector is not mounted to a well-grounded bus, then the grounding conductor should be connected directly to the ground screw terminal on the arrester ground plate.

Graph 1 - PROTECTOR SELECTION



NOTE: Radio frequency and transmit power must be known. The above curves apply to systems with a VSWR equal to or less than 1.2:1. Choose the protector whose curve lies first above the power-frequency coordinates of the radio system.

Graph 2 - FREQUENCY CHARACTERISTICS



For systems with a VSWR in excess of 1.2:1 (and for a more exact determination, If desired), multiply the actual radio power by the expression: $0.83[2\text{xVSWR}+(1+\text{VSWR})]^2$
Use this new power value to enter the graph.

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