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UHF End Of Line Terminator UEOL100WW#

Application & Description Brief

Radiating "leaky" cable systems, in which radio signals are transmitted from a cable rather than from an aerial, can provide two-way radio services in situations where conventional VHF and UHF communications from central areas are not practical. The radiating cable End of Line Terminator is used to prevent unwanted radio frequency reflections presenting themselves within the cable. These unwanted reflections cancel out the wanted signals and radically affect the "throw off the cable". The unit terminates the radio signal in the characteristic impedance of the radiating cable, but does not present any DC current load to the system.

Purchase Contact Details

Becker Electronics
CNR Freda and CR Swart Drive
Randburg
Johannesburg
South Africa
2169

Tel: +27 11 801-5900
Fax: +27 11 793-7900
Website: www.becker-mining.com
Email: sales@beckerelectronics.co.za

DISCLAIMER
All information given in this datasheet is correct to the best of our knowledge, but the company reserves the right to make alterations and amendments to the detailed specification at its discretion.

Functional Features

- IP66 Environmental protection enclosure.
- High strength connection through the use of brass blocks and compression glands.
- Ease of installation in comparison to screw terminal alternatives 1451.

Technical Features

- 50 Ohm characteristics impedance at UHF frequencies maintained across the Leaky Feeder band.
- DC current is blocked in the terminator so that no load is presented to the system

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Performance Specifications

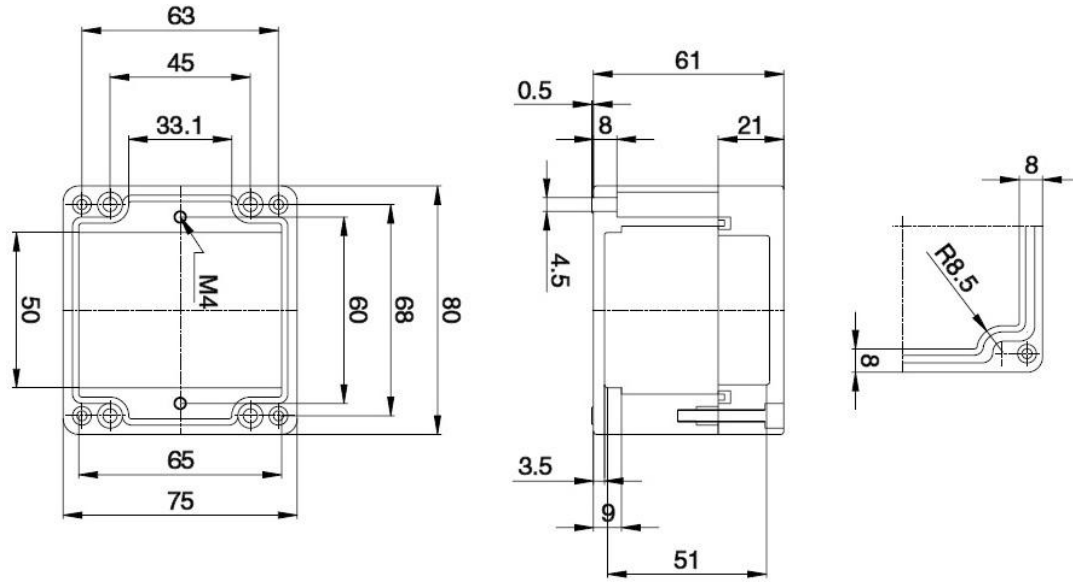| Description	Spec / Range / Type
Frequency Band	100MHz to 500MHz
Impedance	50 Ω
Connectors	1 Brass Block connector
VSWR	1.4:1 (150MHz to 175MHz)
Power Requirement	None - Passive

Environmental Specifications

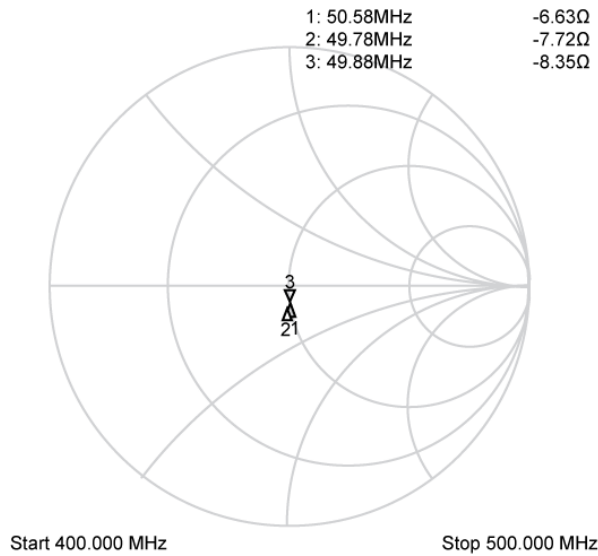| Description	Spec / Range / Type
Operating Temperature Limits	-20°C to + 40°C
Storage Temperature Limits	-40°C to + 65°C
Operating Altitude	Up to 5500m ASL
Operating Humidity	10 to 85% (Non Condensing)
Protection Class	IP68 according to EN60529
Impact Resistance	7Nm – Body Only – Not indicator lights
Flammability	UL94 V-O
Toxicity	Halogen and Cadmium Free
Electromagnetic Interference (EMI)	FCC Emissions Class A (Industrial) CE Emissions Class A (Industrial)

Mechanical Specifications

Description	Spec / Range / Type
Width (Excluding mounting brackets)	80mm
Height (Excluding mounting brackets)	75mm
Depth (Excluding mounting brackets)	61mm
Weight	0.46kg
Principal Materials	Enclosure: Glass Reinforced Polyester GRP Connectors: Electroplated Brass Thermoplastic polymer glass fiber
Finish	Natural Grey – (Similar to RAL7001)
Gasket	Silicon rubber
Mounting Options	4 Holes M6 directly
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Gasket	Silicon rubber
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Mechanical Drawing

63
45
33.1
M4
50
60
68
80
65
75

0.5
61
8
21
4.5
3.5
9
51

8
R8.5
8

Typical Response Curve

1: 50.58MHz	-6.63Ω	
2: 49.78MHz	-7.72Ω	
3: 49.88MHz	-8.35Ω	

3
21

Start 400.000 MHz   Stop 500.000 MHz

Ordering Information

UHF End Of Line Terminator UEOL100WW#

Description	What's In The Box
NON-IA **Part No**: UEOL100WW# – XXXXXX *(Base Part No.) (Serial No)*	• UHF End Of Line Terminator • Datasheet • Test Results Sheet