

50 W Triplexer for the 0-60 MHz / 80-100 MHz and 120-960 MHz Tanges

DESCRIPTION

- > Triplexer for combining or splitting the three ranges 0 – 60 MHz, 80 – 100 MHz and 120 – 960 MHz.
- > Chebychev design ensures very high isolation across the whole pass ranges.
- > High power handling capability.
- > Low insertion loss.
- > Low weight.
- > Wide temperature range.
- > Milled aluminium box ensures extraordinarily high mechanical strength.
- > Black vinyl-coated to prevent corrosion.
- > N-connectors on all ports (standard).
- > Also available with SMA-, TNC- or BNC- connector types.



ORDERING

Model	Product No.
PRO-TRI 60/80-100/120-N	200002324
PRO-TRI 60/80-100/120-SMA	200002301
PRO-TRI 60/80-100/120-TNC	200002325
PRO-TRI 60/80-100/120-BNC	200002326

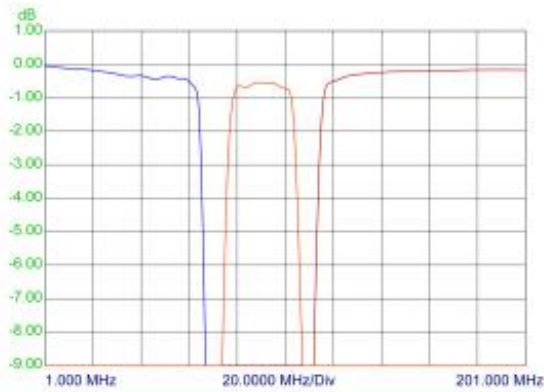
SPECIFICATIONS

Electrical	
Model	PRO-TRI 60/80-100/120-...
Frequency	COM-LOW port: 0 - 60 MHz COM-MEDIUM port: 80 - 100 MHz COM-HIGH port: 120 - 960 MHz
Max. Input Power	50W CW simultaneously on both HIGH, MEDIUM and LOW port
Insertion Loss	0 - 60 MHz: = 0.6 dB 80 - 100 MHz: = 1.0 dB 120 - 960 MHz: = 0.7 dB
Impedance	50 Ω
VSWR	< 1.5:1
Mechanical	
Connection(s)	INPUT: N-female OUTPUT: N-female (Other types available on request)
Dimensions	133 x 106 x 31 mm / 5.24 x 4.17 / 1.22" (incl. connectors and flanges)
Weight	0.475 kg / 1.05 lb
Mounting	4.3mm dia. (4 holes)
Environmental	
Operating Temperature Range	-40°C to +60°C
Ingress Protection	IP62

ADDITIONAL DATA

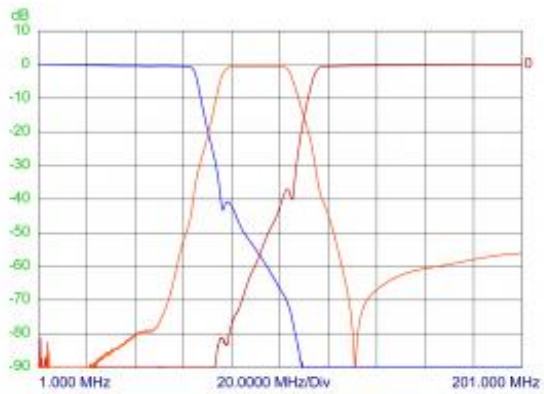
TYPICAL RESPONSE CURVES

INSERTION LOSS [dB]

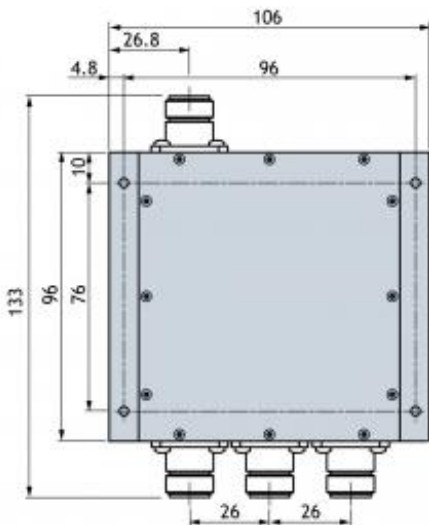


TYPICAL RESPONSE CURVES

PORT ATTENUATION [dB]



MOUNTING DETAILS



The PRO-TRI 60/80-100/120-... makes it possible to use only one antenna for the operation of three transceivers (one in each range). See the figure below. The antenna must be a triple-frequency antenna, i.e. it must be resonant on the actual frequencies in the three bands.

The transceivers may be used independently and will have no degrading influence on each other. Typically, the triplexer is installed next to the transceivers and only one cable is used between the triplexer and the antenna. The triplexer is suitable both for base station and mobile use.

The main tasks of the triplexer are to protect the individual receiver input from being destroyed by the transceiver in the contrary bands and to ensure a low-loss path between the transceiver and the antenna which is not loaded by the other branches.

The triplexer can be operated together with any set of transceivers operating within the 0 - 60 MHz, 80 - 100 MHz and 120 - 960 MHz frequency bands.

