

PRO-TRI 174/380-520/760-960

30/150 W Triplexers for the 0-174 MHz, 380-520 MHz and 760-960 MHz Ranges

- Triplexer for combining or splitting the three ranges:
 - 0 – 174 MHz
 - 380 – 520 MHz
 - 760 – 960 MHz.
- 2 versions:
 - Max. composite input power 30 W
 - Max. composite input power 150 W

DESCRIPTION

- Chebychev design ensures very high isolation across the entire pass ranges.
- High Power handling capability.
- Low insertion loss.
- Low weight.
- Wide temperature range.
- Aluminium box ensures extraordinarily high mechanical strength.
- Black vinyl coated to prevent corrosion.
- SMA(f) connectors on all ports.
- 150 W version provided with heatsink.

ORDERING DESIGNATIONS

TYPE	MAX INPUT POWER	PRODUCT NO.
PRO-TRI 174/380-520/760-960-SMA	30 W	200002726
PRO-TRI 174/380-520/760-960-SMA HP	150 W	200002727

PRO-TRI 174/380-520/760-960-SMA HP:

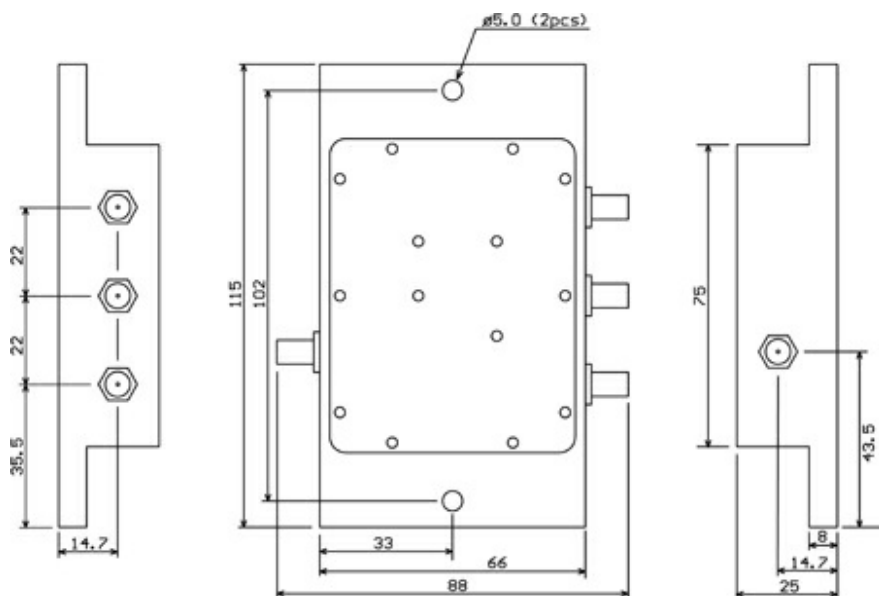


SPECIFICATIONS

ELECTRICAL	
MODEL DESIGNATION 30 W	PRO-TRI 174/380-520/760-960-SMA
MODEL DESIGNATION 150 W	PRO-TRI 174/380-520/760-960-SMA HP
FREQUENCY RANGE	
COM-LOW port:	0-174 MHz
COM-MID port:	380-520 MHz
COM-HIGH port:	760-960 MHz
MAX. COMPOSITE RF INPUT POWER	
PRO-TRI 174/380-520/760-960-SMA:	30 W CW
PRO-TRI 174/380-520/760-960-SMA HP:	150 W CW
MAX. PORT INPUT POWER, COM port loaded with 50 ohm	
PRO-TRI 174/380-520/760-960-SMA:	LOW port: 30 W CW MID port: 30 W CW HIGH port: 30 W CW
PRO-TRI 174/380-520/760-960-SMA HP:	LOW port: 150 W CW MID port: 150 W CW HIGH port: 75 W CW
POWER CAPABILITY DERATING	
PRO-TRI 174/380-520/760-960-SMA HP:	
From T _A =25 °C to T _A =60 °C, composite input power must be gradually derated:	LOW port:: 150 W → 75 W MID port: 150 W → 75 W HIGH port: 75 W → 37.5 W
INSERTION LOSS	
COM-LOW port:	0-174 MHz: ≤ 0.4 dB
COM-MID port:	380-520 MHz: ≤ 0.6 dB
COM-HIGH port:	760-960 MHz: ≤ 0.7 dB
ISOLATION	> 50 dB
IMPEDANCE	Nom. 50 ohm
SWR all ports:	Max. 1.5:1
MECHANICAL	
CONNECTORS	SMA female on all ports
DIMENSIONS (L x W x H)	115 x 88 x 25 mm / 4.5 x 3.5 x 0.9 in. (incl. connectors)
DIMENSIONS (L x W x H)	115 x 88 x 65 mm / 4.5 x 3.5 x 2.5 in. (incl. connectors)
WEIGHT	
PRO-TRI 174/380-520/760-960-SMA:	Approx. 265 g / 0.6 lb
PRO-TRI 174/380-520/760-960-SMA HP:	Approx. 580 g / 1.3 lb
MOUNTING	ø5.0 mm (2 holes)
ENVIRONMENTAL	
AMBIENT TEMP.RANGE	-30°C to +60°C
IP RATING	IP 64

MECHANICAL OUTLINES

PRO-TRI 174/380-520/760-960-SMA:



PRO-TRI 174/380-520/760-960-SMA HP:

