

Multiband PowerTapper 88 - 5850 MHz

DESCRIPTION

- 500 W power taper with 4.8 to 30 dB coupling covering the 88 - 5850 MHz.
- Taps off a portion of the signal from the main line.
- Amphenol Procom tappers are symmetrical around the main line. Meaning that you will have the same good VSWR from both sides of the main line.
- Excellent high-power performance.
- Very low insertion loss over the entire frequency range.
- Power tappers are frequently used in distributed antenna systems in buildings or tunnels. Tappers operate similarly to directional couplers, but without the directivity (no isolation between output port and coupled port) and have relatively broad bandwidths.



SPECIFICATIONS

Electrical	
Model	PRO-TAP-88-5850-...-4.3/10
Frequency	88 - 5850 MHz
Max. Input Power	500 W
Coupling	See table for Coupling / Coupling tolerance
Group Delay, Coupled	< 0.8 ns
Impedance	50 Ω
Group Delay, Through	< 0.6 ns
Total Loss	See table for Total Loss
VSWR	See table for VSWR
Passive Intermodulation	< -153 dBc (2 x 43 dBm)
Mechanical	
Compliance	RoHS, IP67
Connection(s)	4.3/10(f)
Dimensions	167 x 32 x 62 mm / 6.57 x 1.26 x 2.44 in. (without bracket)
Weight	Approx. 0.54 kg / 1.19 lb.
Mounting	6.5 mm dia. (two holes)
Environmental	
Operating Temperature Range	-30 °C to +60 °C

TABLE FOR COUPLING / COUPLING TOLERANCE

Coupling	88 - 150 MHz	150 - 380 MHz	380 - 1550 MHz	1710 - 2700 MHz	3400 - 3500 MHz	3500 - 4500 MHz	5000 - 5850 MHz
4.8 dB	+0.5/+4 dB	+0/+2 dB	-0.5/+1 dB	-0.5/+1 dB	+0/+2.5 dB	-1/+1.5 dB	-1/+1 dB
6 dB	+0.5/+4.5 dB	-0.5/+2 dB	-1/+1 dB	-1/+1 dB	-0.5/+2 dB	-1.5/+1 dB	-1/+2.5 dB
8 dB	+1/+5 dB	-0.5/+2.5 dB	-1/+1 dB	-1/+1 dB	-0.5/+2 dB	-1.5/+1 dB	-1.5/+2 dB
10 dB	+1/+5 dB	-0.5/+2.5 dB	-1/+1 dB	-1/+1 dB	-1/+1 dB	-1.5/+0.5 dB	-1.5/+2 dB
15 dB	+0/+4 dB	-0.5/+1.5 dB	-1/+1 dB	-0.5/+1 dB	-3/+0 dB	-3/+0 dB	-3/+1.5 dB
20 dB	-0.5/+2 dB	-1/+1 dB	-1/+1 dB	-1/+1.5 dB	-6/-3 dB	-5/-1.5 dB	-3/+1.5 dB
30 dB	-2.5/+0 dB	-2.5/+0 dB	-2.5/+0 dB	-2/+2.5 dB	-15/-6 dB	-10/-2 dB	-6/+3 dB

TABLE FOR TOTAL LOSS

Coupling	88 - 1550 MHz	1710 - 2700 MHz	3400 - 3500 MHz	3500 - 4500 MHz	5000 - 5850 MHz
4.8 dB	< 2.1 dB	< 2.1 dB	< 2.5 dB	< 2.5 dB	< 2.8 dB
6 dB	< 1.7 dB	< 1.7 dB	< 2.0 dB	< 2.0 dB	< 2.0 dB
8 dB	< 1.1 dB	< 1.1 dB	< 1.3 dB	< 1.3 dB	< 1.3 dB
10 dB	< 0.65 dB	< 0.65 dB	< 0.8 dB	< 0.8 dB	< 0.8 dB
15 dB	< 0.3 dB	< 0.3 dB	< 0.4 dB	< 0.4 dB	< 0.45 dB
20 dB	< 0.15 dB	< 0.15 dB	< 0.3 dB	< 0.3 dB	< 0.3 dB
30 dB	< 0.15 dB	< 0.15 dB	< 0.4 dB	< 0.25 dB	< 0.25 dB

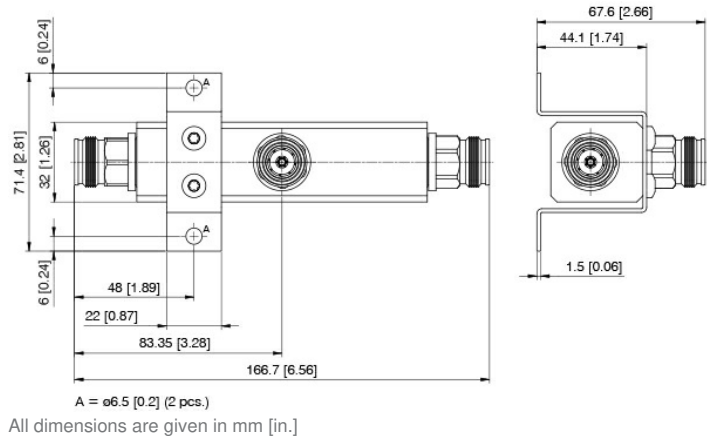
TABLE FOR VSWR

Coupling	88 - 1550 MHz	1710 - 2700 MHz	3400 - 4500 MHz	5000 - 5850 MHz
4.8 dB	< 1.6:1	< 1.6:1	< 1.75:1	< 1.75:1
6 dB	< 1.5:1	< 1.5:1	< 1.6:1	< 1.6:1
8 dB	< 1.3:1	< 1.3:1	< 1.4:1	< 1.4:1
10 dB	< 1.25:1	< 1.25:1	< 1.25:1	< 1.25:1
15 dB	< 1.2:1	< 1.2:1	< 1.2:1	< 1.25:1
20 dB	< 1.2:1	< 1.2:1	< 1.2:1	< 1.25:1
30 dB	< 1.2:1	< 1.2:1	< 1.2:1	< 1.25:1

ORDERING

Model	Product No.	Description
PRO-TAP 88-5850-4.8 dB-4.3/10(f)	210002832	Coupling: 4.8 dB
PRO-TAP 88-5850-6 dB-4.3/10(f)	210002833	Coupling: 6 dB
PRO-TAP 88-5850-8 dB-4.3/10(f)	210002834	Coupling: 8 dB
PRO-TAP 88-5850-10 dB-4.3/10(f)	210002835	Coupling: 10 dB
PRO-TAP 88-5850-15 dB-4.3/10(f)	210002836	Coupling: 15 dB
PRO-TAP 88-5850-20 dB-4.3/10(f)	210002837	Coupling: 20 dB
PRO-TAP 88-5850-30 dB-4.3/10(f)	210002838	Coupling: 30 dB

MOUNTING DETAILS STANDARD BRACKET



MOUNTING DETAILS STANDARD BRACKET FOR SIDE MOUNTING

