

RF Power Splitter 2-way 0°/Combiner PD 250

Features:

- ✓ 250 Watts Splitter
- ✓ 2x120 Watts Combiner
- ✓ 5 MHz - 50 MHz
- ✓ 50 MHz-100 MHz
- ✓ Passive fully reciprocal
- ✓ compact case style



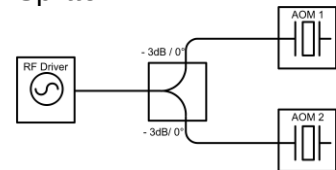
Application:

RF power splitter are mainly used to drive two loads (AOMs) powered by one RF driver source. Based on its passive transformer design, it can also operate as a combiner. Therefore, RF-sources with different phases and frequencies can control one single AOM.

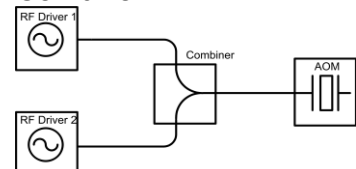
General:

The PD 250 series, which is offered in two frequency models to achieve a better frequency response, has a wide operating frequency range. It can convert the RF power from a single 50 Ω source into two outputs, which have -3dB half of power with the same impedances and phase. The cabling must always be adequately designed for RF applications. Identical output cabling and length ensure correct phase condition. In the event of a mismatch, an internal resistor compensates the reflected power from each output port. The passive design allows to couple two RF signals, which can also have differ in frequency and phase angle.

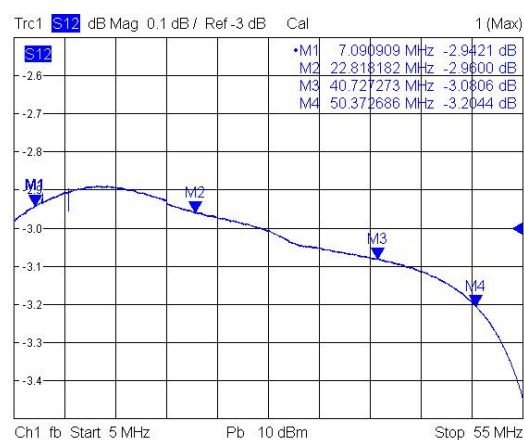
Splitter



Combiner



Properties:



Controls:

Options:

Accessories:

Cables and adaptors RF sources and dummy loads

Subject change without notice V10_R11

Specification:

Electrical		MIN	Max	Unit
Impedance		Nom. 50		Ω
Input power (50Ω) as Splitter		na	250	W
Output port 1 / port 2		-2,9	-3,4	dB
Input power (50Ω) as combiner		na	120	W
Power dissipation (in case of mismatch)		na	60	W
VSWR			1,2	
Operating frequency	Item PD250-50	5	50	MHz
	Item PD250-100	45	100	MHz
RF-Properties				
Insertion loss	Item PD250-50	0.2	0.3	dB
	Item PD250-100	0.3	0.5	dB
Isolation	Item PD250-50	15	30	dB
	Item PD250-100	12	25	dB
Insertion loss Combiner			3,4	dB
Amplitude Balance			0,3	dB
Phase Balance			4	°
Thermal				
Temperature drift		-	0,051	dB/K
Ambiance /Installation/Transport				
Storage temperature		-40	+160	°C
Relative humidity in storage			90	%
Ambient temperature during operation		+5	+45	°C
Relative humidity during operation			75	%
Ambient conditions, room air		Atmospheric AMSL 3000m max.		
Mechanics				
Body Dimensions L x W x H		-	100 x 50 x 21.5	mm
Weight (heat sink dependent)		120	150	g
Connector Input		BNC, TNC		
Connector Ports		BNC, TNC		

Dimension: (mm)

