

PD2020 Power Divider/Combiner

2-Way, N-Type Jack, 0.6-2.7 GHz, 40 Watts

■ Features

- Ideal for DAS (600 - 2700 MHz)
- Low Insertion Loss (0.2 dB typ)
- High Port-to-Port Isolation (30 dB typ)
- Excellent VSWR (1.10 : 1 typ)
- RoHS, REACH, CE Compliant
- Tri Alloy SMA Female (Jack) 50Ω

■ Applications

- Amplifier sharing
- Receiver combining
- Antenna splitting
- PCS, GSM, LTE, CELLULAR
- UMTS, LBAND, GPS, TETRA, RFID
- ISM, WIFI, WiMAX

■ Ratings

- Operating Temp: -65C to +85C
- Power Input: 40W as splitter
- Internal Dissipation: 2 Watts
- Current Input: 4A DC Current
- IP51 Protection Rating



Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	600		2700	MHz
Impedance		50		Ohms
Insertion Loss (3.01 Split)			0.4	dB
22 KHz Tone:			0.5	
10 MHz BUC:			0.5	
Amplitude Balance	0.0	0.1	0.2	dB
Phase Balance	0.0	1	2	Degrees
Isolation	22	30	50	dB
Input VSWR		1.15:1	1.20:1	
Output VSWR		1.1:1	1.15:1	
DC Voltage		500	500	VDC
DC Current			4	A

Mechanical Specifications

Item	Description
Connectors	TYPE-N Female (Jack), 50Ω
Connector Body	Brass, Tri-Alloy Plate
Connector Pin	Phosphor Bronze, Gold Plate
Insulator	PTFE, Virgin Electrical Grade
Housing	Aluminum, Clear Chem Convesion Film, ROHS Compliant
Solder	Lead Free, ROHS Compliant
Protection Rating	IP51
Operating Temp	-65C To +85C
Weight	174 Grams
MTBF	Consult Factory

RF Specifications

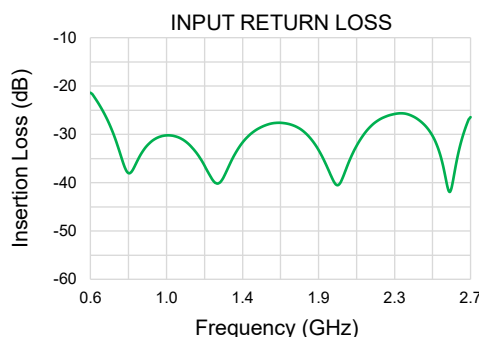
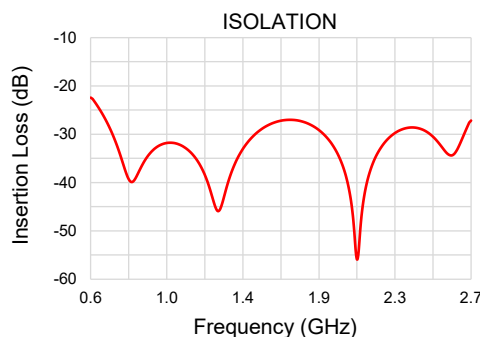
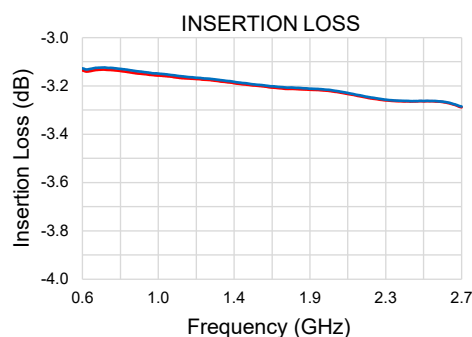
RF Input Power Rating (Power Divider Splitter)

Into Matched Load VSWR's	In-Phase	180 Out-Of-Phase
1.2:1	40 Watts	40 Watts
2.0:1	40 Watts	20 Watts
Infinite	20 Watts	4 Watts

RF Input Power Rating (Power Combiner)

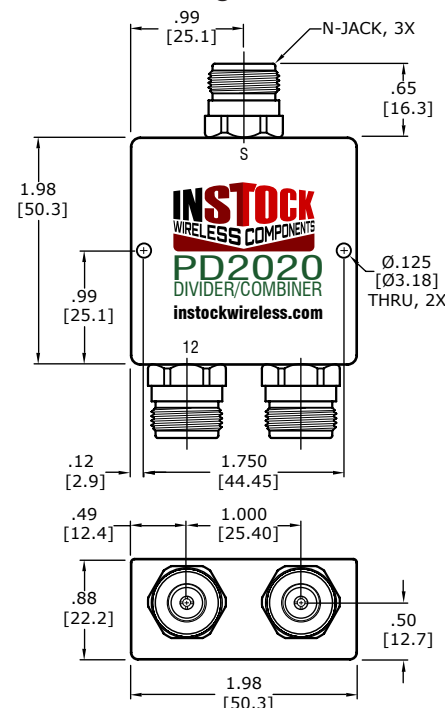
Non-Coherent Signals	2 X 1 Watt
Coherent Signals (In-Phase)	2 X 20 Watts
Coherent Signals (180 Out-Of-Phase)	2 X 0.5 Watts
Other Conditions - Consult Factory	

Test Data

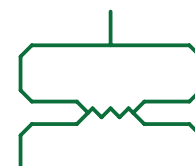


TAA and Section 889 Compliant — Designed and Manufactured in the USA

Outline Drawing



Schematic



DC, 22 KHz, 10 MHz & 600-3800 MHz Pass All Ports

Available in Other Arrangements

Connector	Model
SMA	PD2120
QMA	PD2720
TNC	PD2920
BNC	PD2520