

WPD1040A

1.0 – 4.0 GHz, Power Divider/Combiner, 2-way, 0 Degree

April 2013, REV B



Key Features

- Wide band, 1.0 – 4.0 GHz
- Low insertion loss, 0.50 dB typ.
- High isolation, 18 dB min.
- Excellent VSWR, 1.22:1 typ.
- 0 degree Wilkinson type
- Precision machined housing
- RoHS compliant

Applications

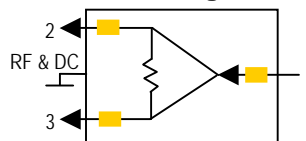
- LTE
- Mobile base station applications
- Land radio
- RF bench test



Absolute Maximum Ratings

Input Power (at port 1)	20 dBm
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

Functional Block Diagram



Ordering Information

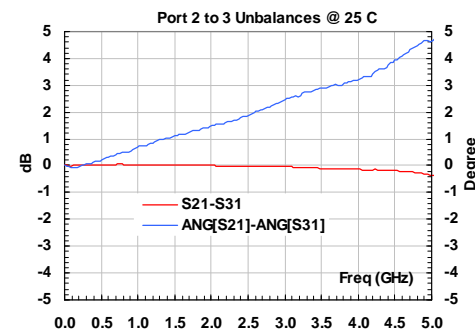
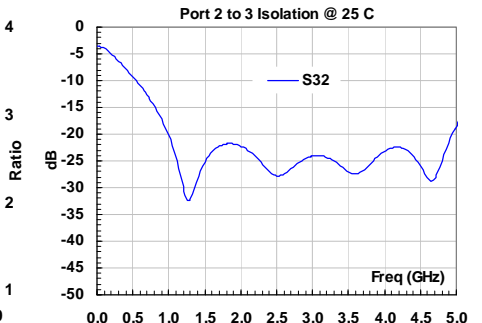
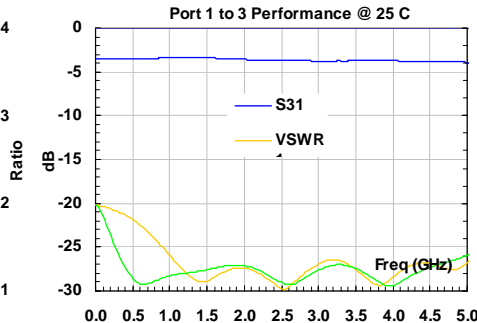
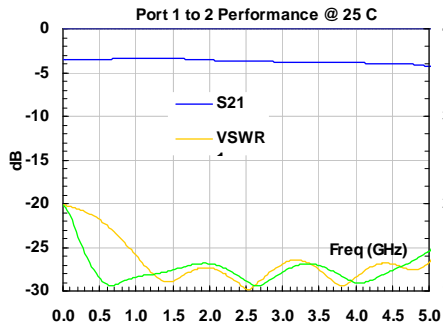
Model	Connectors
WPD1040A	SMA Female

Marking: WPD1040A

Specifications (Tested at +25°C)

Item	Symbol	Test Constraints	Min	Typ	Max	Unit
Frequency Range	BW	50 Ohm Impedance	1.0		4.0	GHz
Insertion Loss	S_{21} , S_{31}	1.0 – 4.0 GHz, above 3 dB		0.5	1.2	dB
Isolation	S_{23}	1.0 – 4.0 GHz, 50 Ohm load at port C	18			dB
VSWR	SWR_i	1.0 – 4.0 GHz, all ports		1.22:1	1.5:1	Ratio
Amplitude Unbalance	$S_{21} - S_{31}$	1.0 – 4.0 GHz		0.2	1.0	dB
Phase Unbalance	$S_{21} - S_{31}$	1.0 – 4.0 GHz		1	5	Deg
Power Handling	P_{MAX}	1.0 – 4.0 GHz, CW			20.0	dBm
Operating Temp	T_o		-40		+85	°C

Typical Performance



Outline, IP-1

