



IPD40N

1.0 GHz – 4.0 GHz POWER DIVIDER/COMBINER
2-WAY, 0 DEGREE

REV A
July 2015

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
- Single DC Power Supply
- Meet MIL-STD-202g

Applications

- LTE
- Land Radio
- RF Bench Tests
- Mobile Base Station Applications



Absolute Maximum Ratings

Parameters	Units	Ratings
Input Power(at Port 1)	dBm	20
Storage Temperature	°C	-40 ~ +85
Operating Temperature	°C	-40 ~ +85

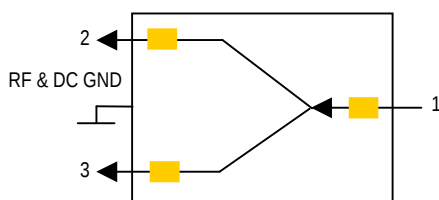
Operation of this device beyond any one of these parameters may cause permanent damage.

Specifications

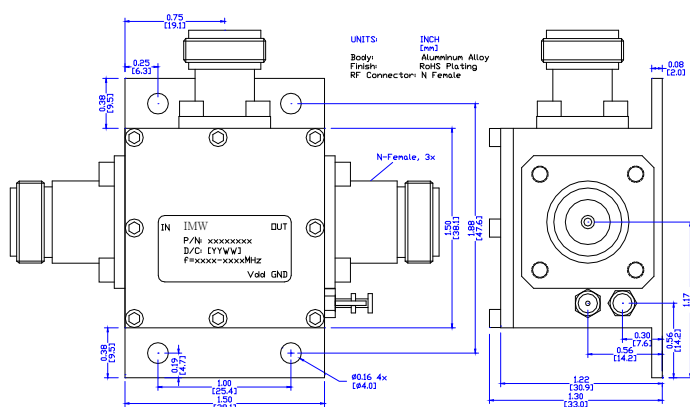
Summary of the key electrical specifications at 25°C

Index	Testing Item	Symbol	Test Constraints	Min	Typ	Max	Unit
1	Frequency Range	BW	50 Ohm Impedance	1.0		4.0	GHz
2	Insertion Loss	S_{21} , S_{31}	1.0 – 4.0 GHz, above 3 dB		0.5	1.4	dB
3	VSWR	SWR_i	1.0 – 4.0 GHz, all Ports		1.22:1	1.5:1	Ratio
4	Isolation	S_{23}	1.0 – 4.0 GHz, 50 Ohm Load at Port C	18			dB
5	Amplitude Unbalance	$S_{21} - S_{31}$	1.0 – 4.0 GHz		0.2	1.0	dB
6	Phase Unbalance	$S_{21} - S_{31}$	1.0 – 4.0 GHz		1	5	Deg
7	Power Handling	P_{MAX}	1.0 – 4.0 GHz, CW			20.0	dBm
8	Operating Temperature	T_o		-40		+85	°C

Functional Block Diagram



Outline, IP-2A Housing



Ordering Information

Model Number	Connectors
IPD40N	N Female

Specifications and information are subject to change without notice.

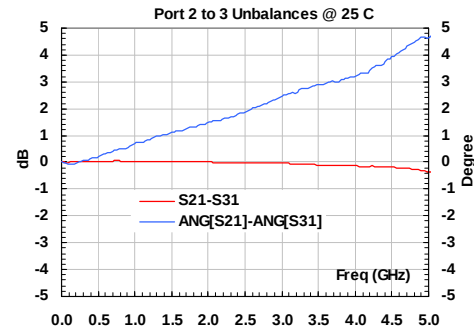
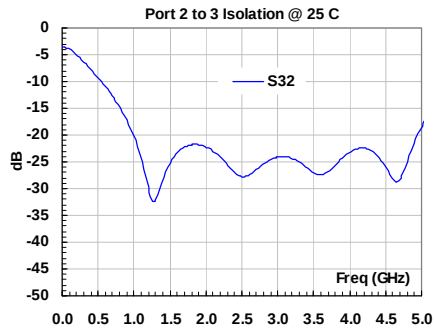
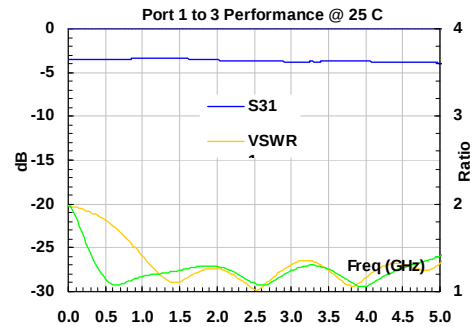
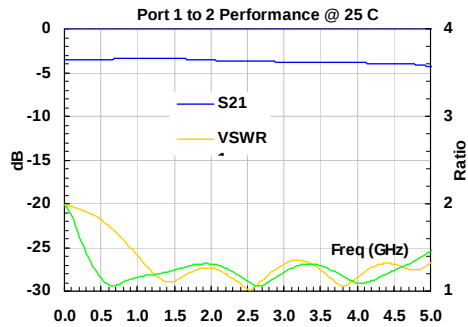


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Typical Data



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