

# WHC0810A

820 – 960 MHz, Hybrid Coupler, 90 Degree, 10 Watts CW

November 2013, REV C



## Key Features

- Wide band, 820 - 960 MHz
- Low insertion loss, 0.50 dB typ.
- High isolation, 30 dB typ.
- Excellent VSWR, 1.22:1 typ.
- 90 degree Hybrid, SMA Connector
- Precision machined housing
- RoHS compliant

## Applications

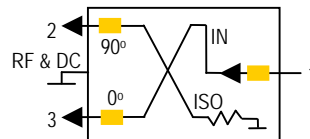
- Balance wide band power amplifier
- Land radio
- RF bench test
- Cellular, GSM applications



## Absolute Maximum Ratings

Input Power (at port 1)	CW, 10W
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

## Functional Block Diagram



## Ordering Information

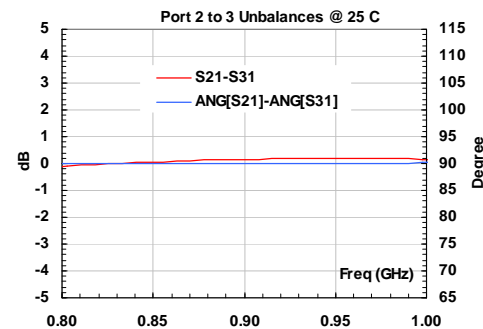
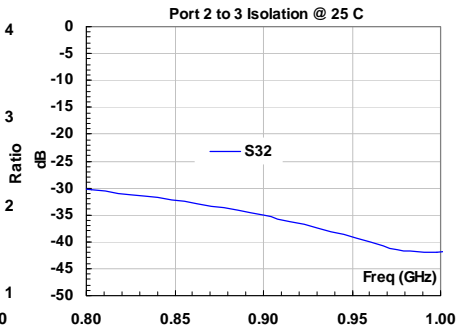
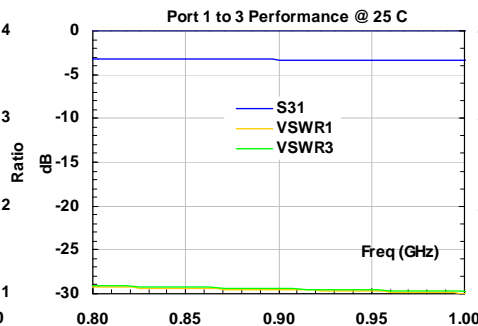
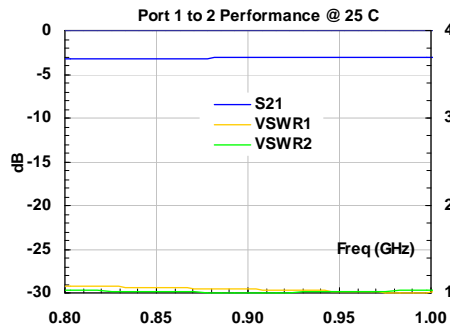
Model	Connector
WHC0810A	SMA Female

Marking: WHC0810A

## Specifications (Tested at +25°C)

Item	Symbol	Test Constraints	Min	Typ	Max	Unit
Frequency Range	BW	50 Ohm Impedance	820		960	MHz
Insertion Loss	$S_{21}, S_{31}$	820 – 960 MHz, above 3 dB		0.2	0.5	dB
Isolation	$S_{23}$	820 – 960 MHz, 50 Ohm load at port C	20	30		dB
VSWR	$SWR_i$	820 – 960 MHz, all ports		1.22:1	1.5:1	Ratio
Amplitude Unbalance	$S_{21} - S_{31}$	820 – 960 MHz		0.2	0.5	dB
Phase Offset	$S_{21} - S_{31}$	820 – 960 MHz	87	90	93	Deg
Power Handling	$P_{MAX}$	820 – 960 MHz, CW			10	W
Operating Temp	$T_o$		-40		+85	°C

## Typical Performance



## Outline, IP-1

