

# Data Sheet

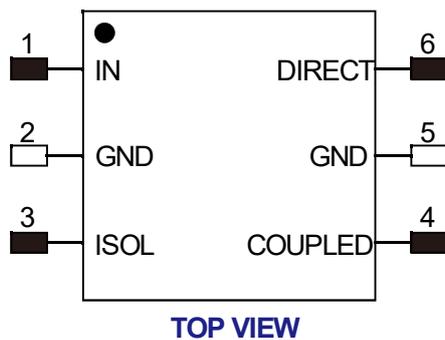
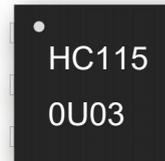
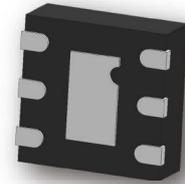
## HC1150U03-190

3dB 90° Coupler IC  
1.12 GHz-1.26 GHz



### Features

- Small Size (2×2mm)
- Very Low Loss
- Tight Amplitude Balance
- High Isolation
- Low VSWR
- Good Repeatability
- Tape & Reel
- Power handling
  - 4 Watts as a divider
  - 2 Watts as a combiner



### Applications

- Phase shifter / Attenuator
- Balanced amplifier / LNA configurations
- Modulators
- Mixers
- Power combining /dividing

#### Notes:

- 1.Require to add Capacitors of DC Blocker between Pins(with black color) and external circuit to prevent DC signal entry to guranteeparts normal work.
- 2.This part has passed through 100% RF test.

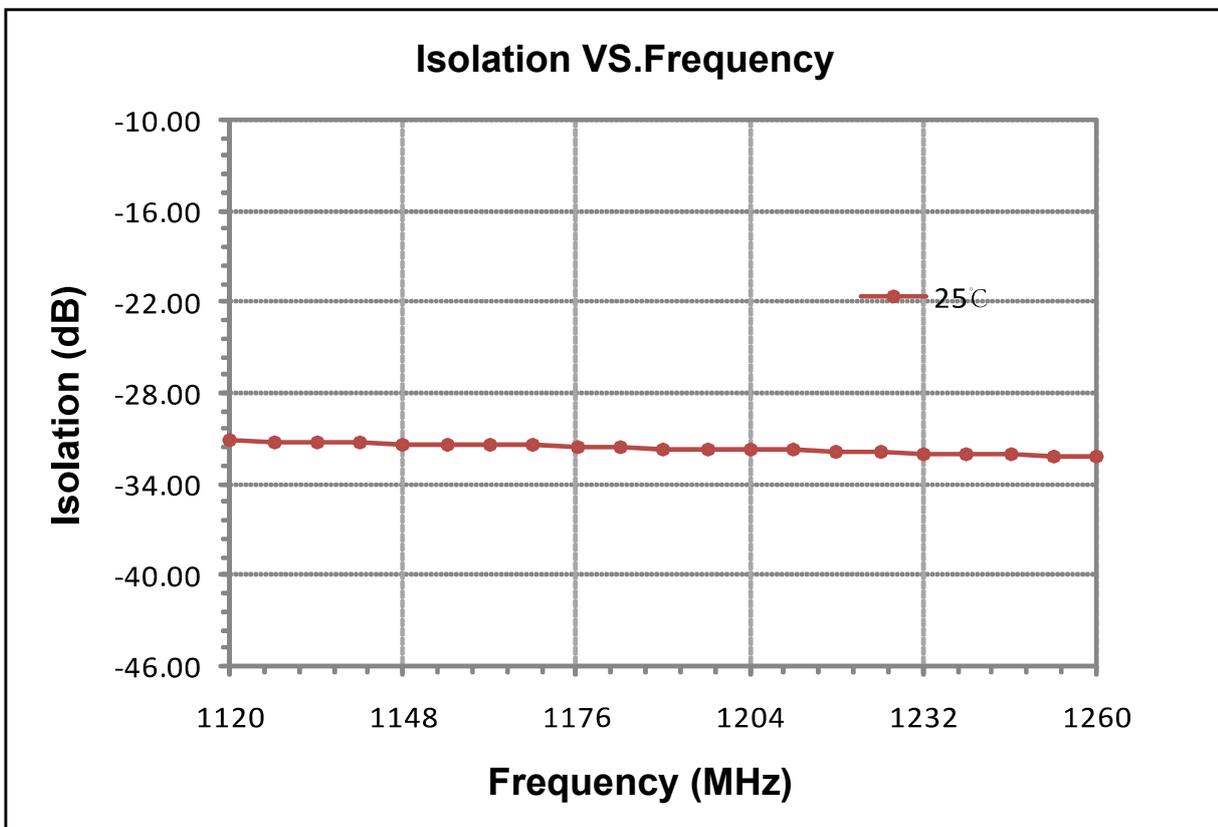
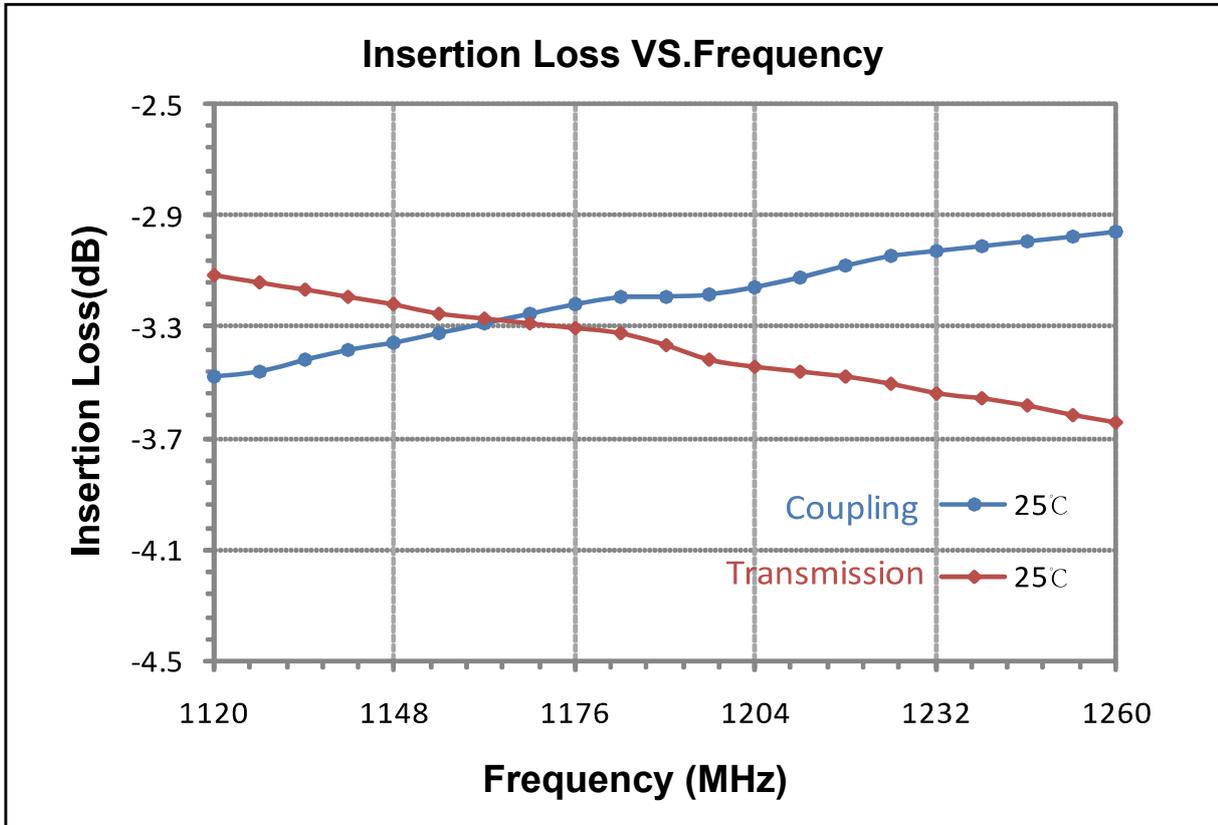
### Electrical Specifications at 25° C

Number	Frequency (MHz)	Coupling		Transmission		Amplitude Balance (dB)	Phase (degree)	Return Loss(dB)			
		Coupling (dB)	Phase1	Trans mission (dB)	Phase2			S11	S22	S33	S44
HC1150U03-190	1176	3.28	59.451	3.411	149.042	0.131	89.591	33.637	38.714	40.409	36.55
	1207	3.237	63.026	3.547	152.707	0.31	89.681	32.805	37.857	40.069	36.32
	1227	3.166	65.625	3.639	154.955	0.473	89.33	32.3	37.347	39.974	36.096
	1268	3.037	69.911	3.784	159.479	0.747	89.568	31.327	35.956	39.871	35.657

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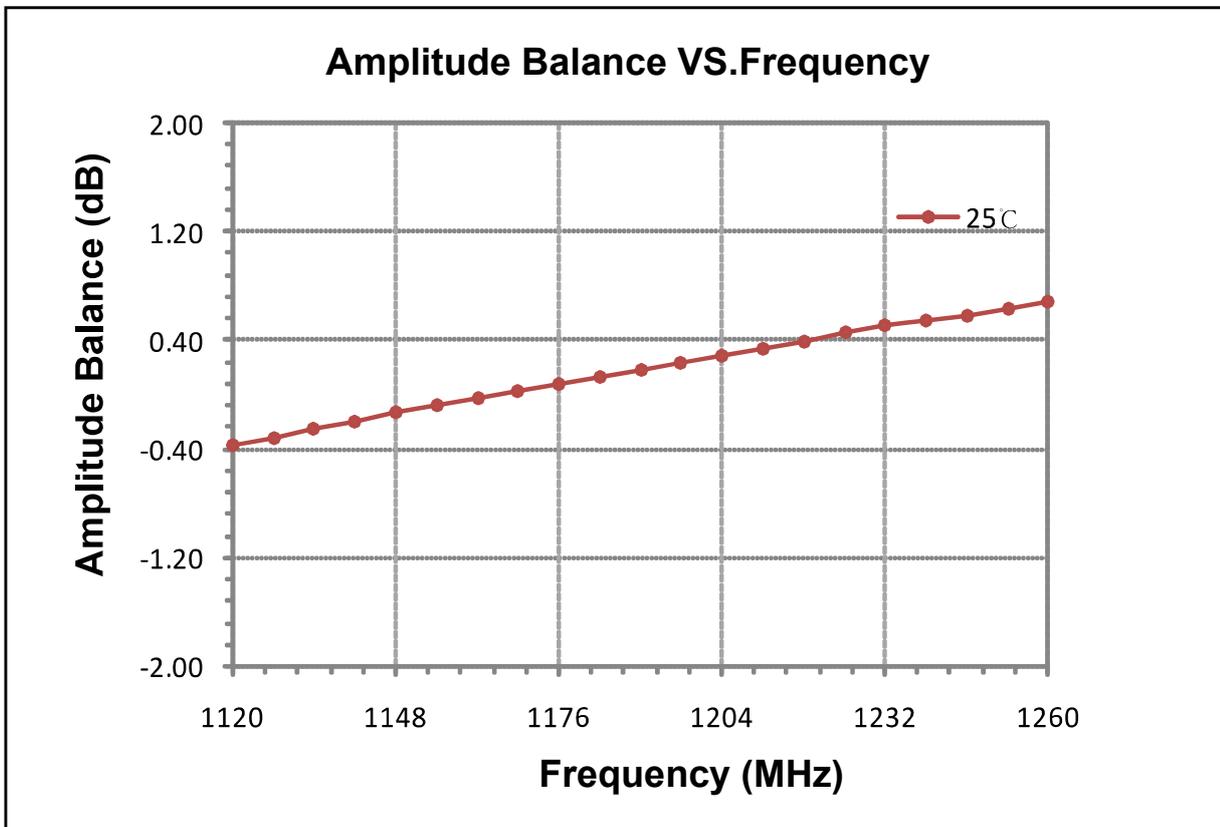
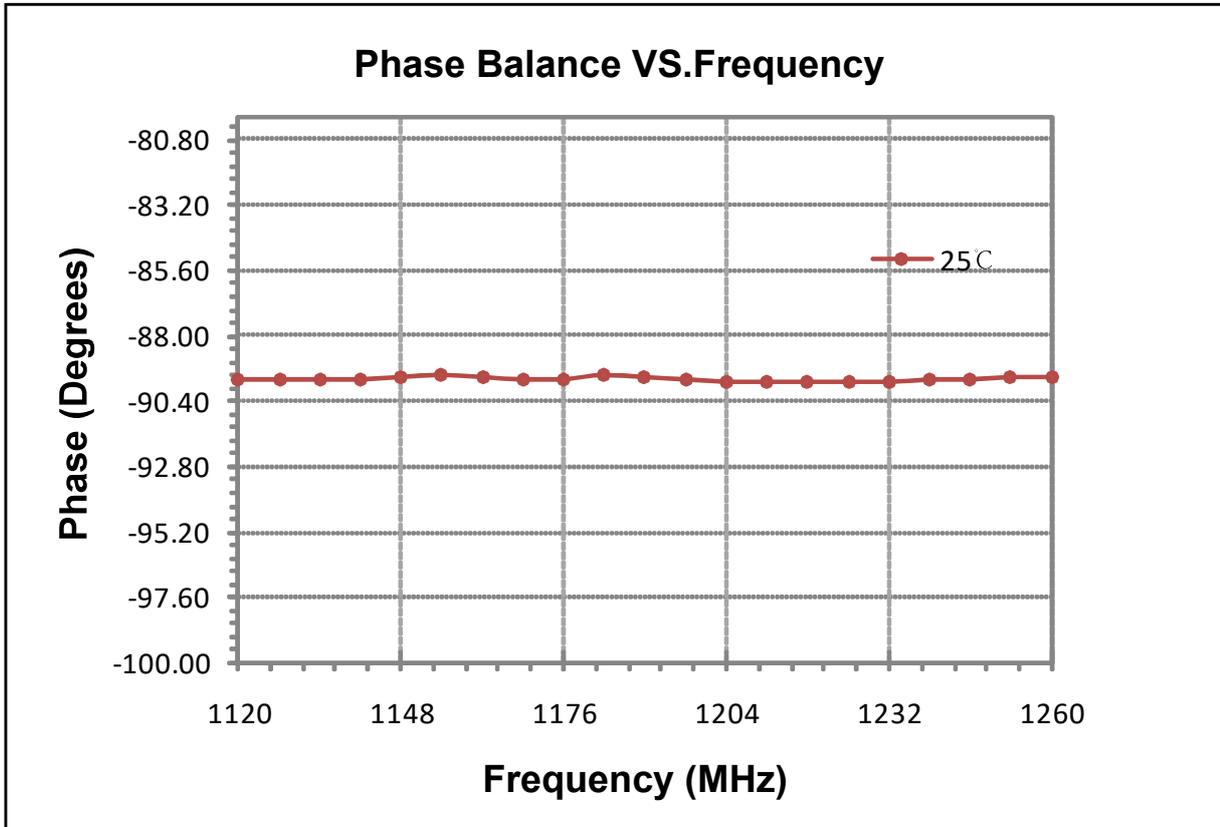
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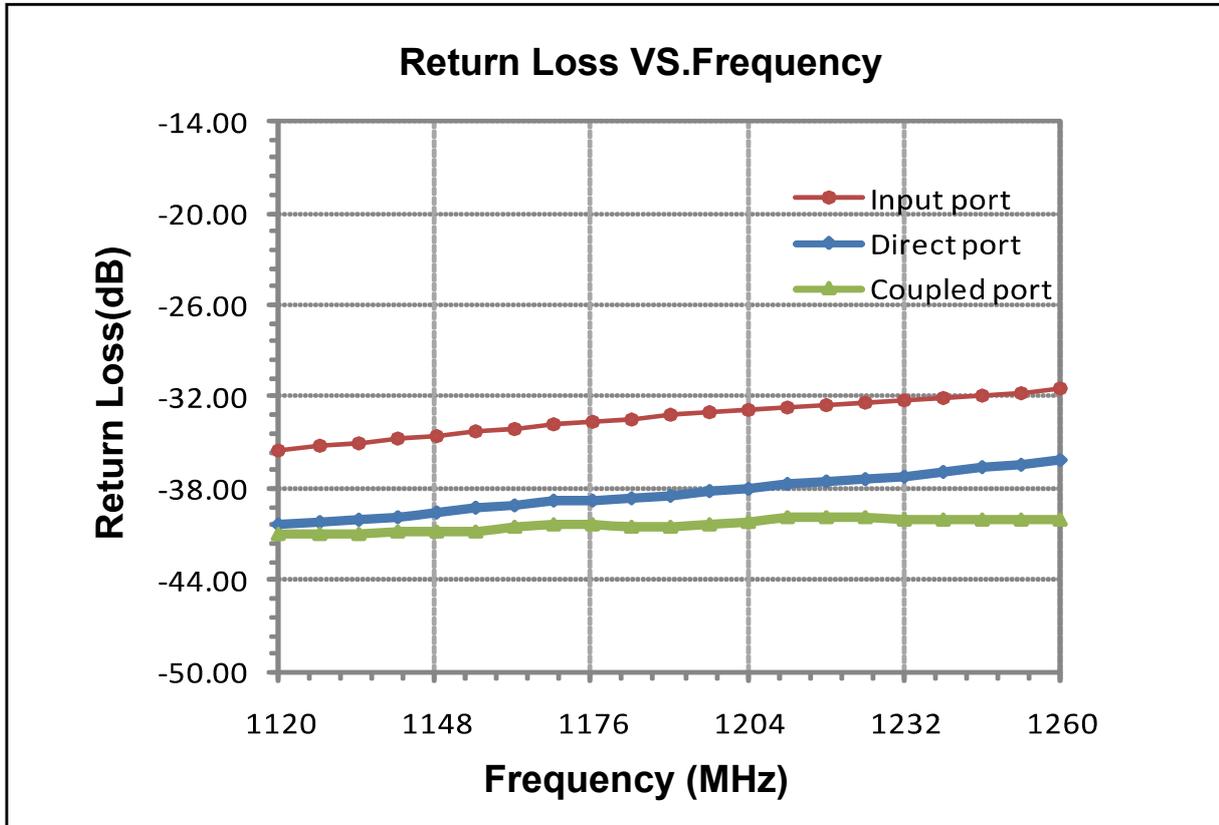
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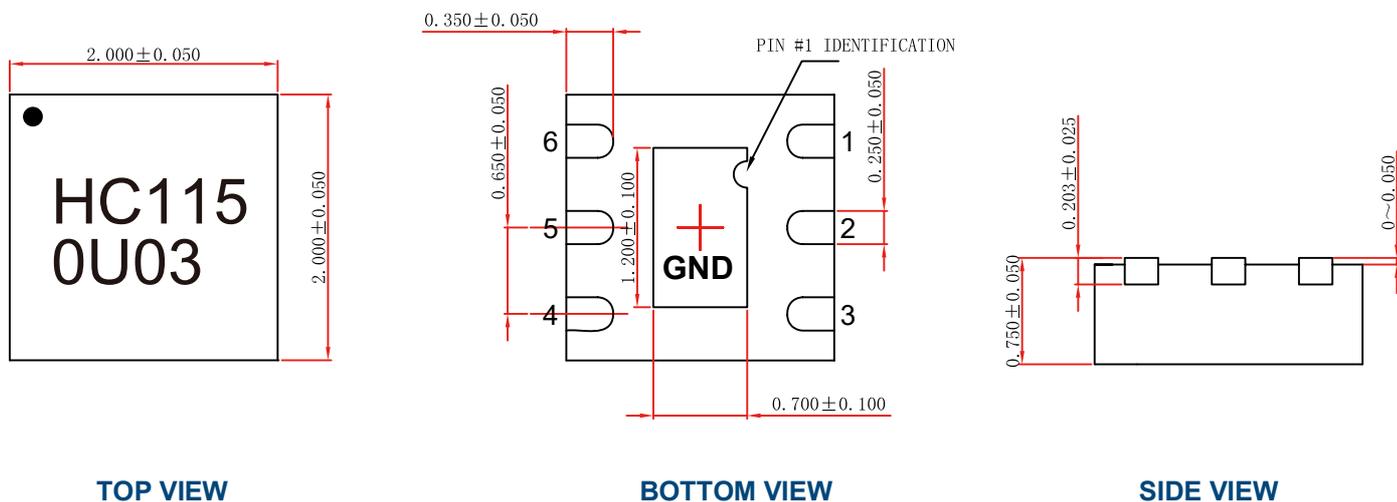
# Data Sheet

## HC115U03-190

3dB 90° Coupler IC  
1.12 GHz-1.26 GHz



### Outline Drawing

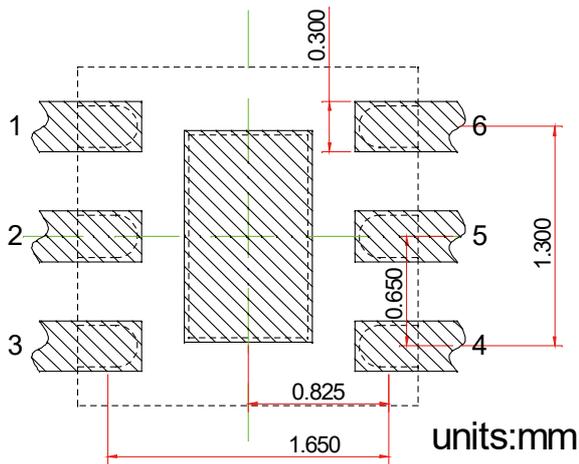


TOP VIEW

BOTTOM VIEW

SIDE VIEW

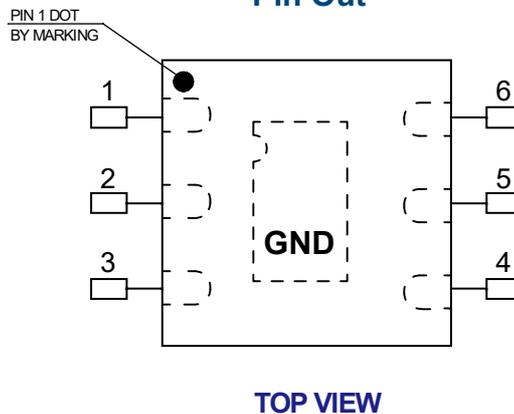
### Land Pattern



### Recommended Land Pattern Top View

Notes: All dimensions show in millimeters

### Pin Out



Pin #	Connection
1	IN
2	GND
3	ISOL
4	COUPLED
5	GND
6	DIRECT
Center Pad	GND