

Data Sheet

HC3550U03-060

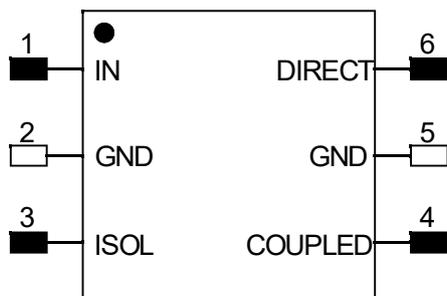
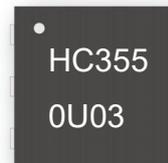
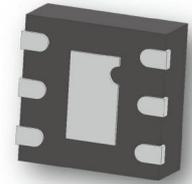
3dB 90° Coupler IC

3.30 GHz-3.80 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



TOP VIEW

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

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	F	3300		3800	MHz
Insertion Loss (Above 3dB)	I_L		0.40	0.55	dB
Isolation	Isol	16	20		dB
Phase balance	\varnothing_{bal}		6.0	9.0	deg
Amplitude balance	A_{bal}		0.4	0.65	dB
Return Loss	R_L	14	18		dB

Data Sheet

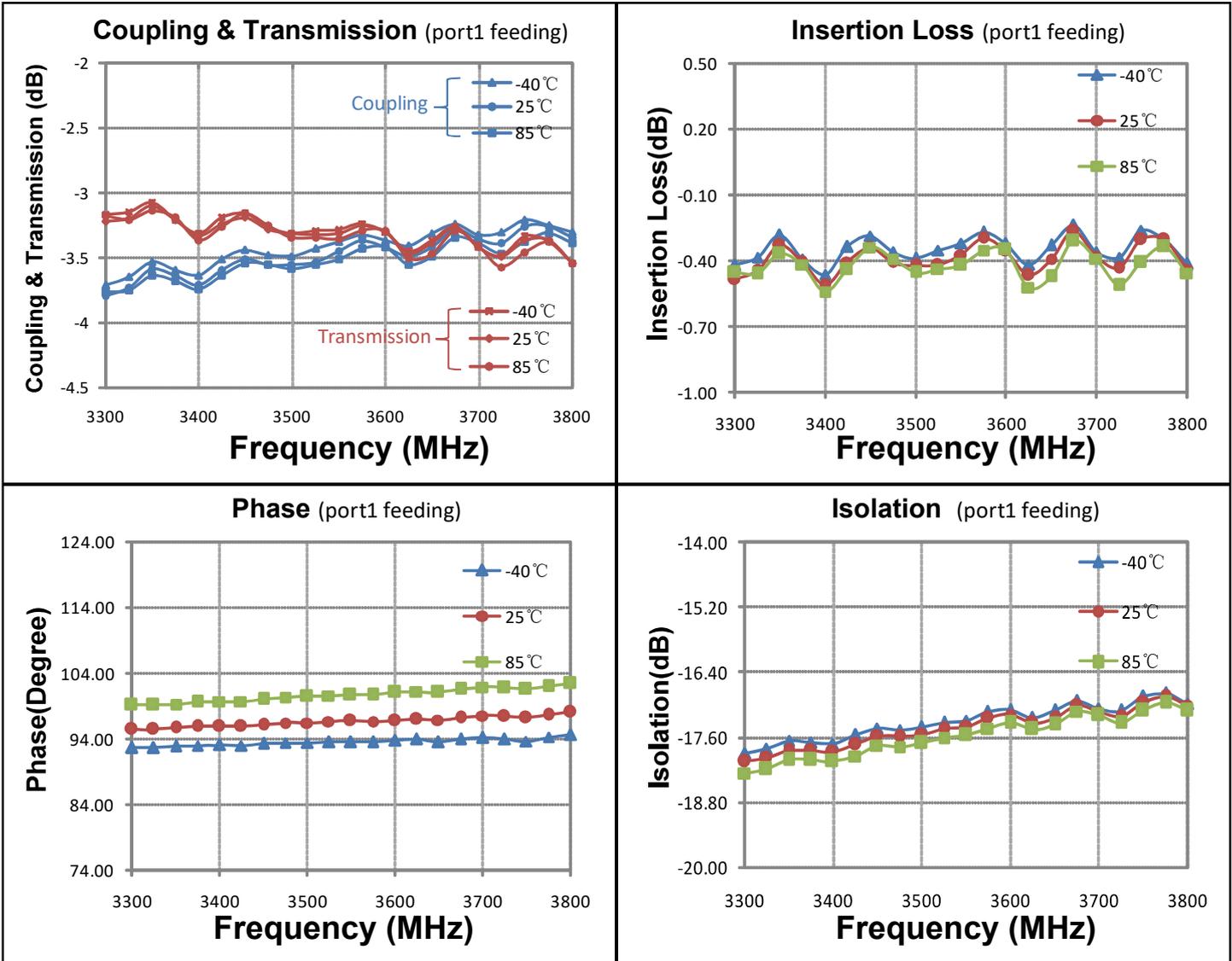
HC3550U03-060

3dB 90° Coupler IC

3.30 GHz-3.80 GHz



Typical Performance (-40°C, 25°C, 85°C: 3300-3800 MHz)



Data Sheet

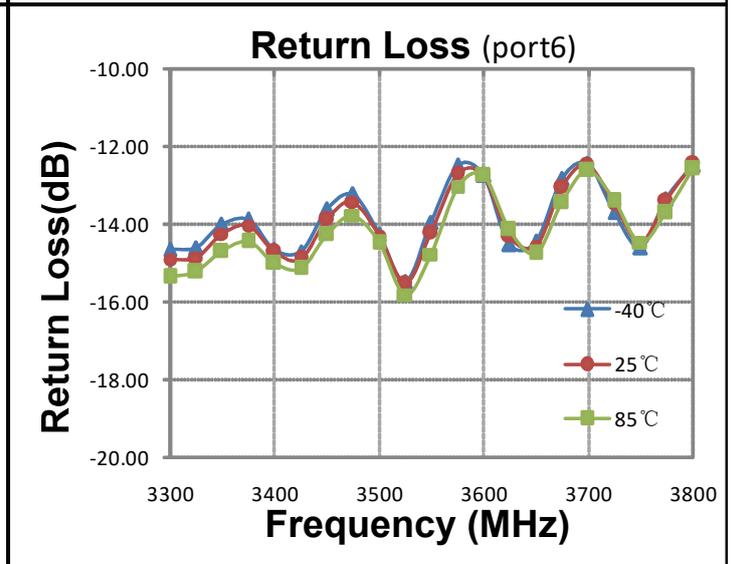
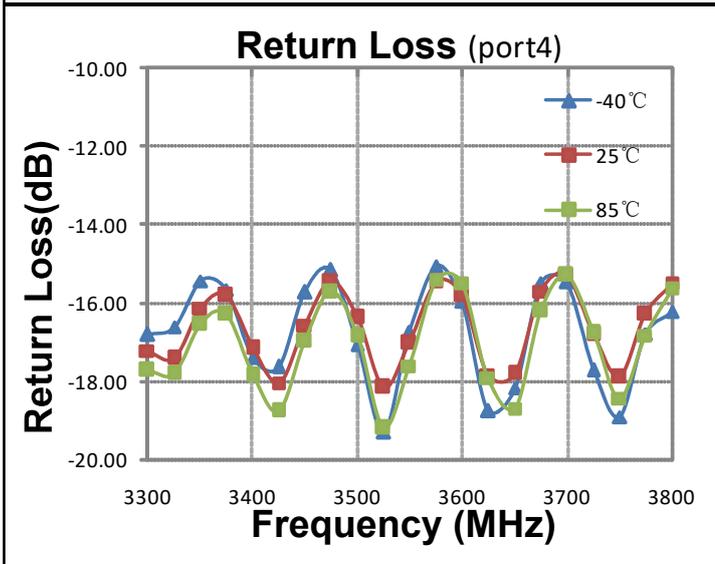
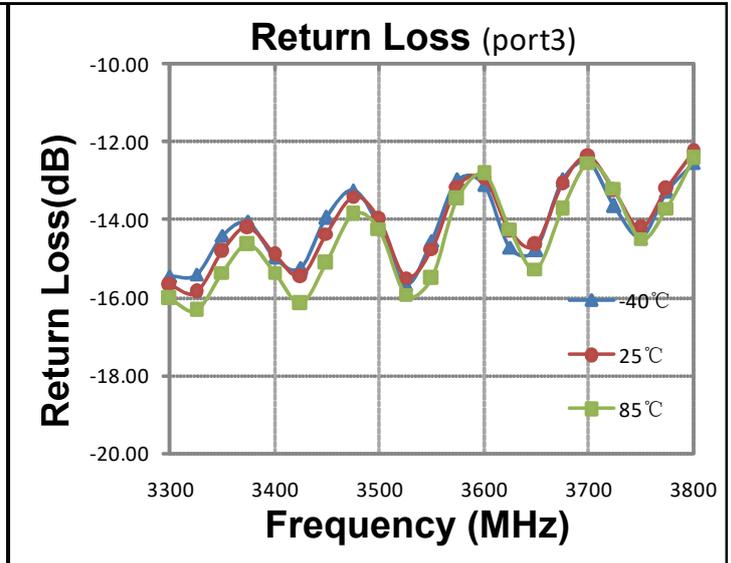
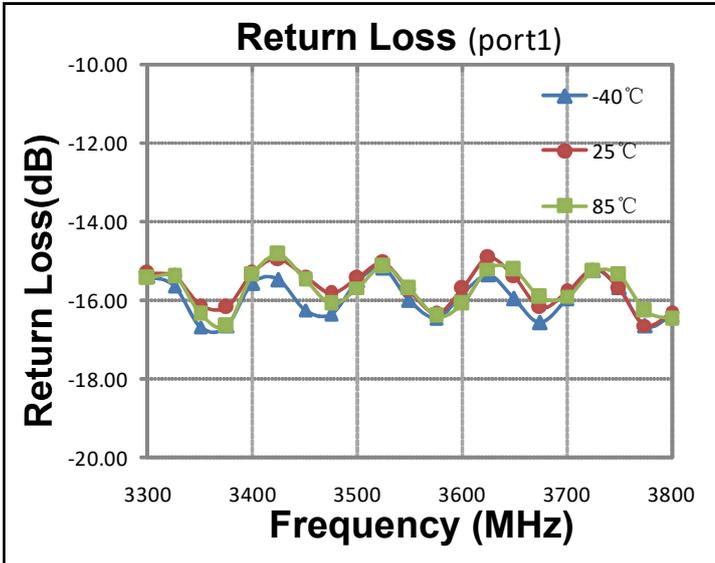
HC3550U03-060

3dB 90° Coupler IC

3.30 GHz-3.80 GHz



Typical Performance (-40°C, 25°C, 85°C: 3300-3800 MHz)



Data Sheet

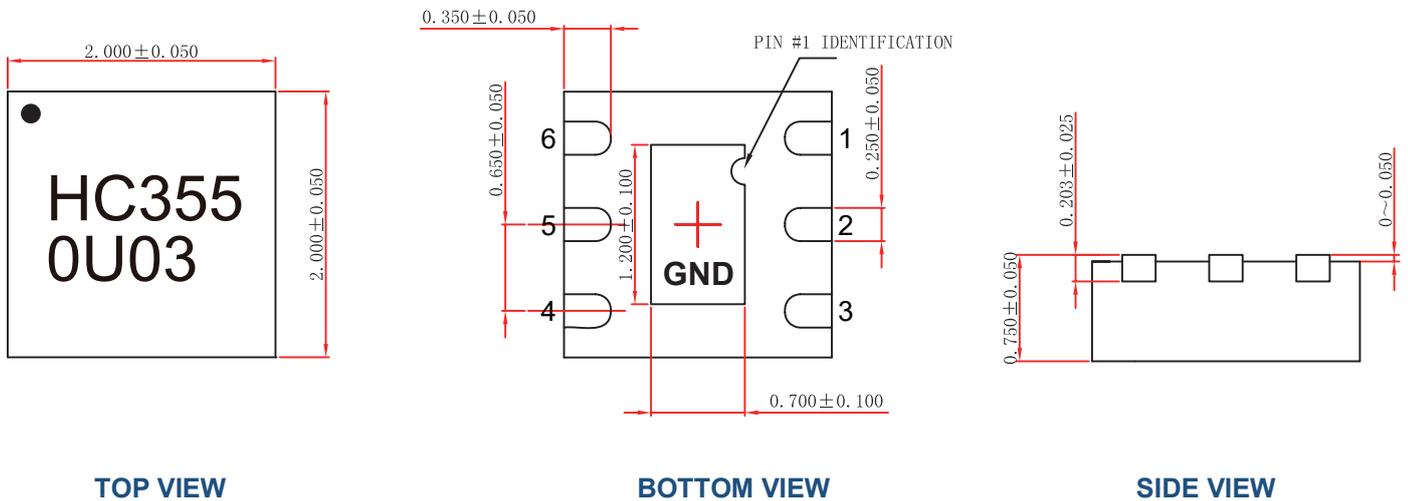
HC3550U03-060

3dB 90° Coupler IC

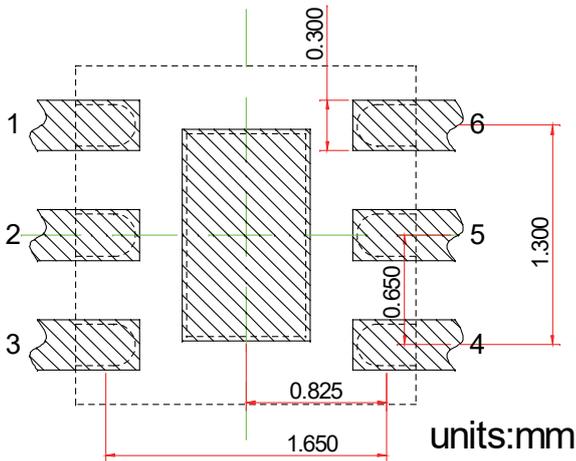
3.30 GHz-3.80 GHz



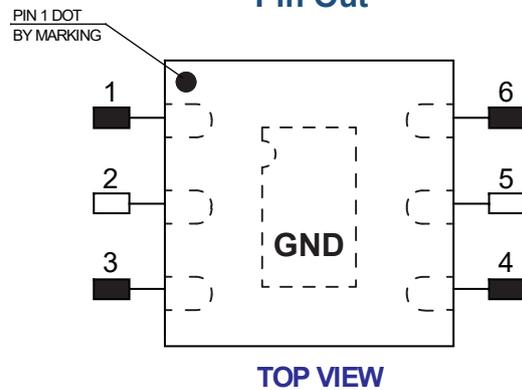
Outline Drawing



Land Pattern



Pin Out



Notes:

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

Recommended Land Pattern Top View

Notes: All dimensions show in millimeters

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