

Data Sheet

HC26IC03Q

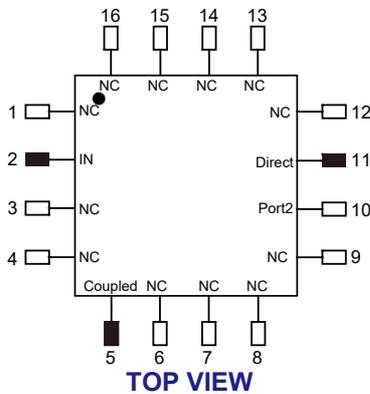
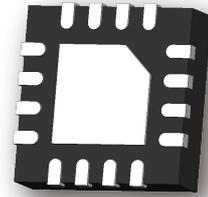
3dB 90° Coupler IC

2 GHz-6 GHz



Features

- Small Size (3×3mm)
- 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

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	F	2		6	GHz
Insertion Loss (Above 3dB)	I _L		0.7	1.4	dB
Isolation	I _{sol}	12	15		dB
Phase Unbalance (Deviation from 90°)	∅ _{bal}		3.0	9.0	deg
Amplitude Unbalance	A _{bal}		0.6	1.8	dB
Input VSWR			1.3	1.5	
Output VSWR			1.3	1.5	

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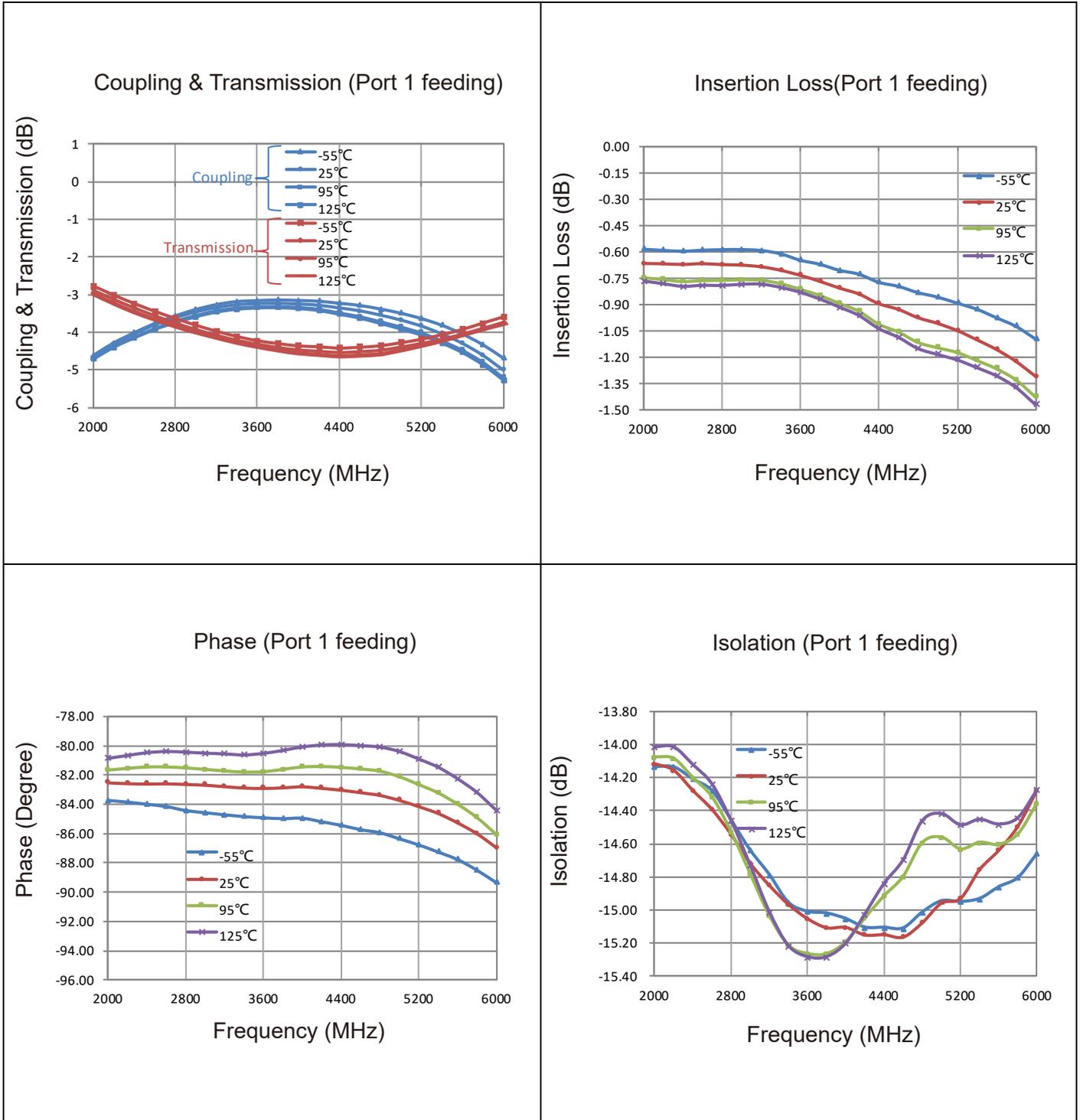
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Typical Performance (-55°C, 25°C, 95°C: 2000-6000 MHz)



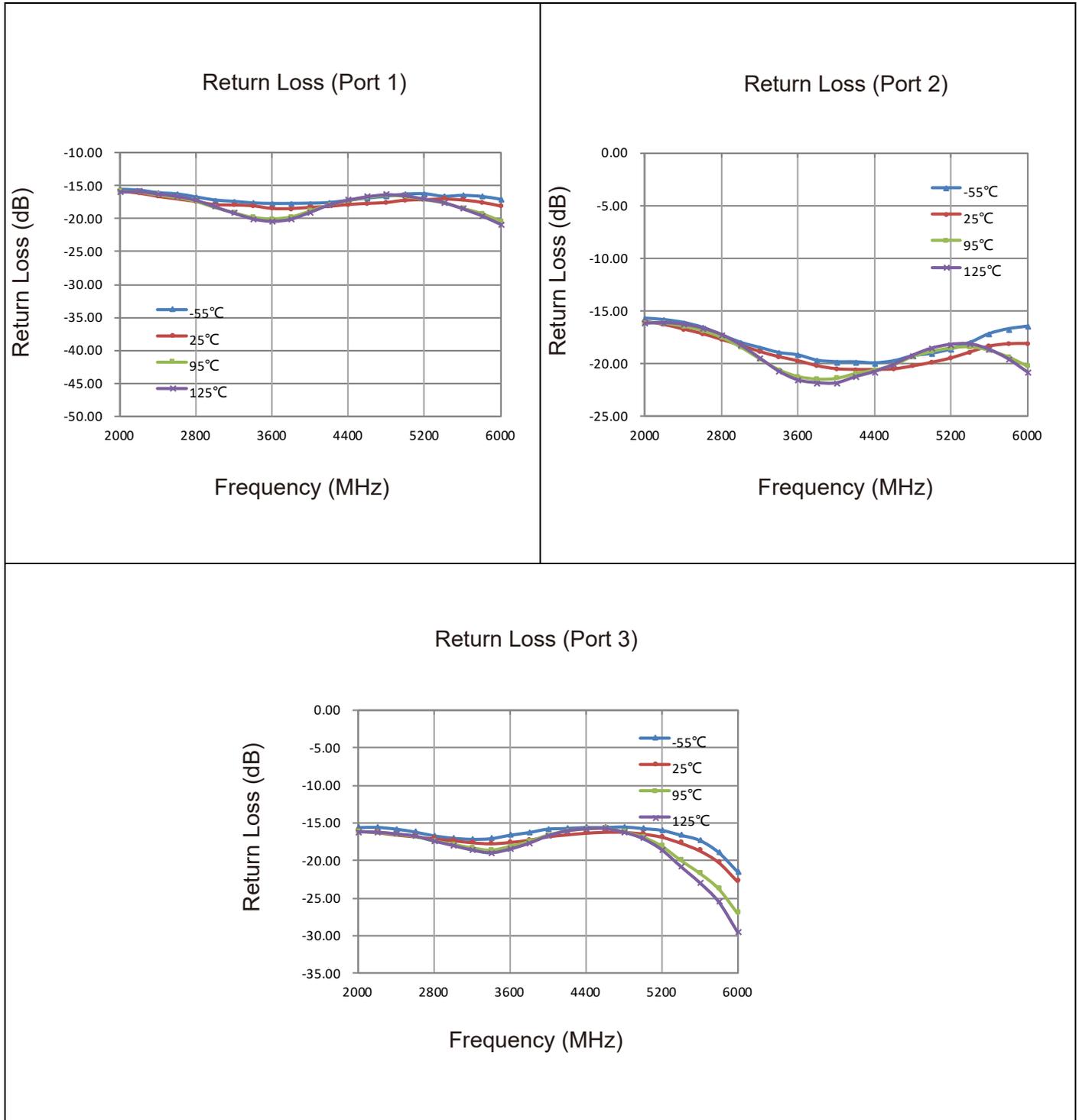
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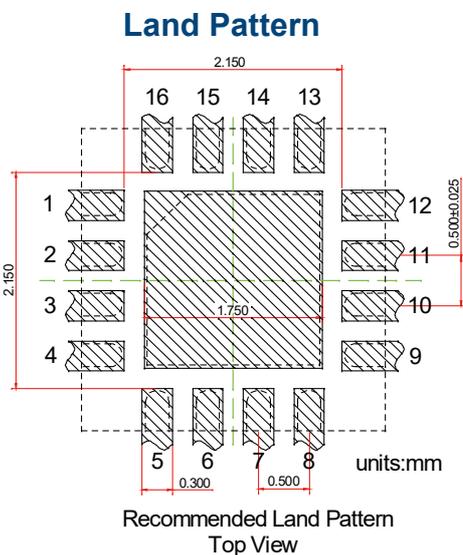
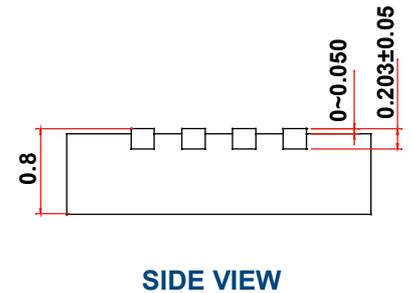
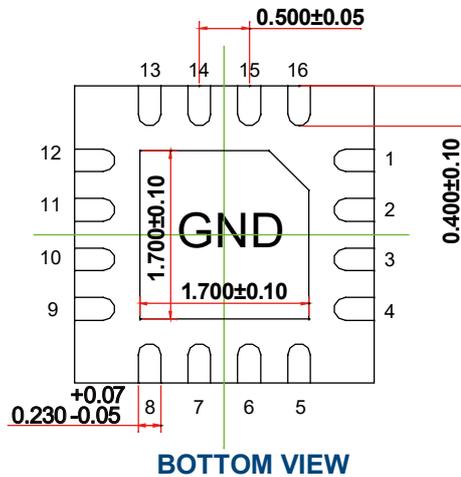
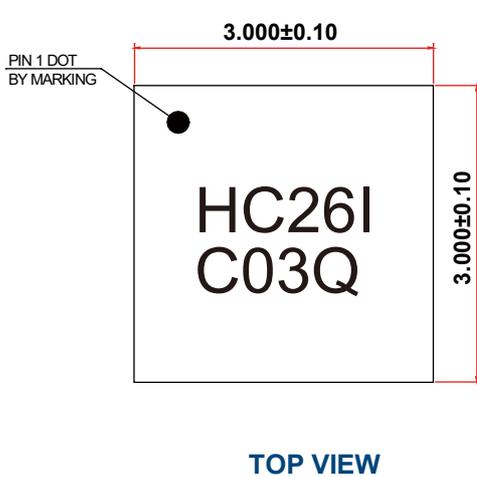
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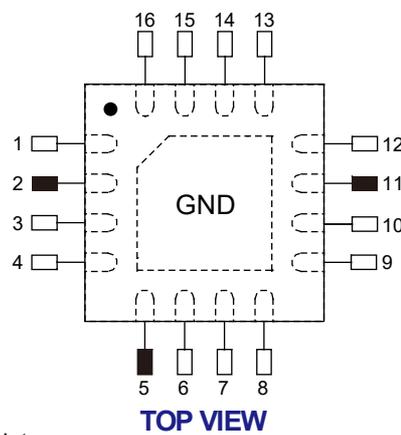


Outline Drawing



Notes: All dimensions show in millimeters

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 normal work.
 2. This part has passed through 100% RF test.

Pin #	Connection
1	NC
2	IN
3	NC
4	NC
5	Coupled
6	NC
7	NC
8	NC
9	NC
10	NC
11	Direct
12	NC
13	NC
14	NC
15	NC
16	NC
Center Pad	GND