

APPLICATIONS

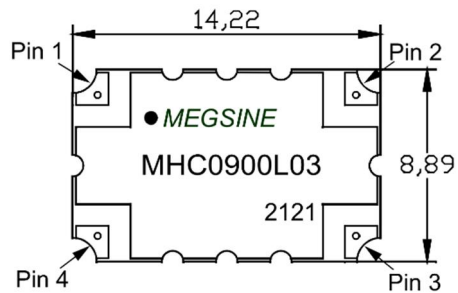
1. Low Insertion Loss For Precision RFID Antenna
2. PCS/DCS
3. Balanced Amplifiers
4. Small Cell & Pico



TOP VIEW

Features

1. Low Insertion Loss 0.3dB typ.
2. High Isolation, 25 dB typ.
3. Small Size 14.22 X 8.89 X 2.0mm
4. High Power
5. Tight Amplitude Balance
6. RoHS Compatible

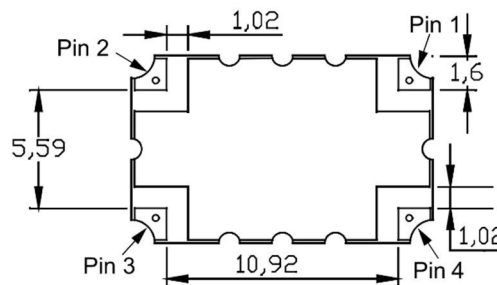


Pin Configuration

1. PIN 1 SUM PORT
2. PIN 2 50Ω TERM EXTERNAL
3. PIN 3 PORT 2 (0°)
4. PIN 4 PORT 1 (+90°)

BOTTOM VIEW

SIDE VIEW



Characteristics 1)

Item	Min.	Type.@25°C	Max.	Unit
Frequency Range	800		1000	MHz
Isolation	20	25		dB
Insertion Loss		0.2	0.3	dB
Phase Unbalance	-3	2	+3	degrees
Amplitude	-0.35	0.2	+0.35	dB
VSWR (:1)		1.15	1.25	:1
Operating Temp.	-55		+95	°C
Power			200	W

All Use For RF & Microwave

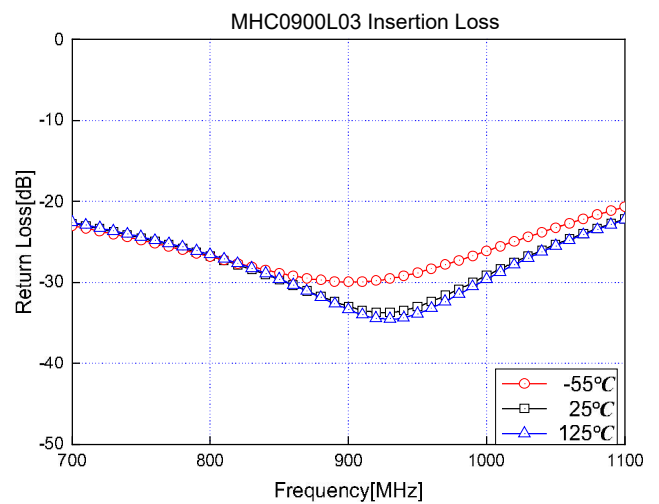
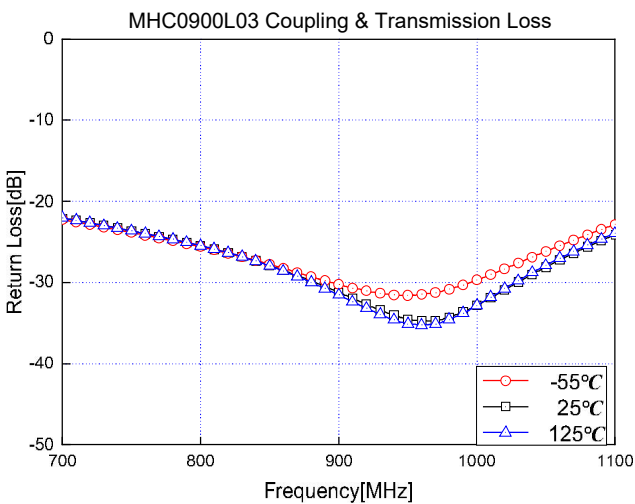
1) All the above data are based on specified demo board and tested in 25° environment.

Characteristics

Definition of Measured Specifications

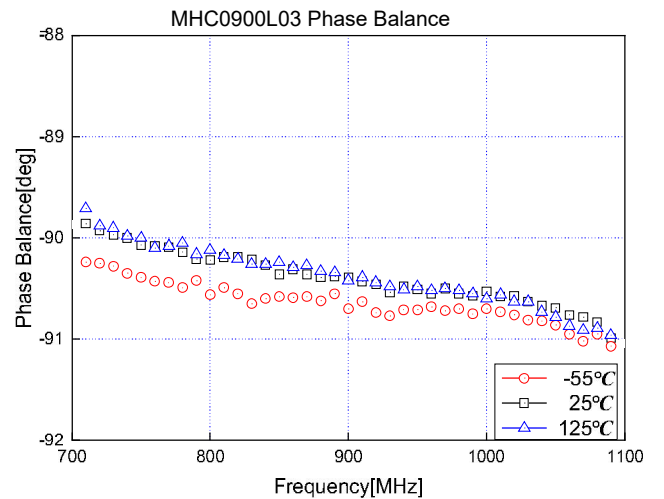
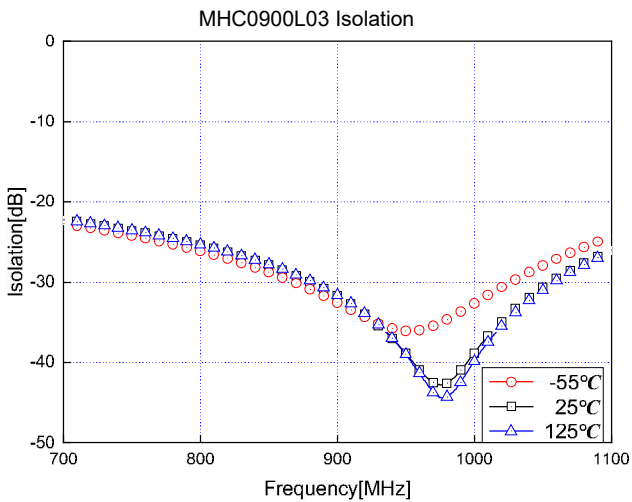
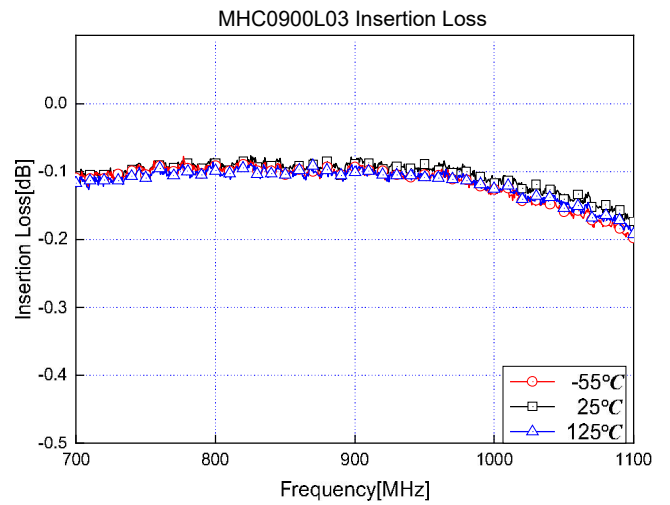
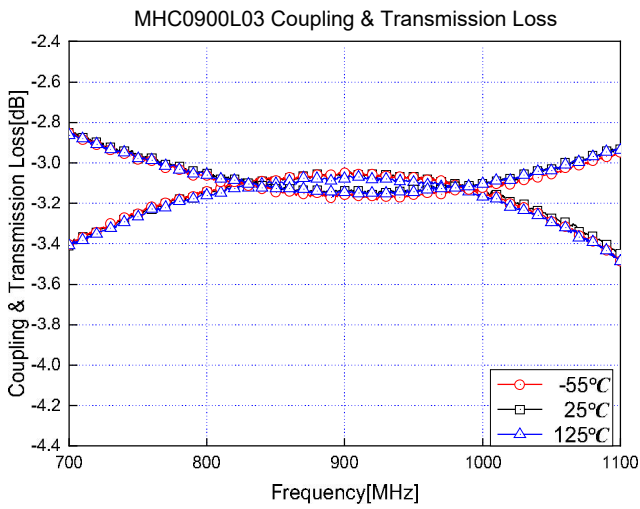
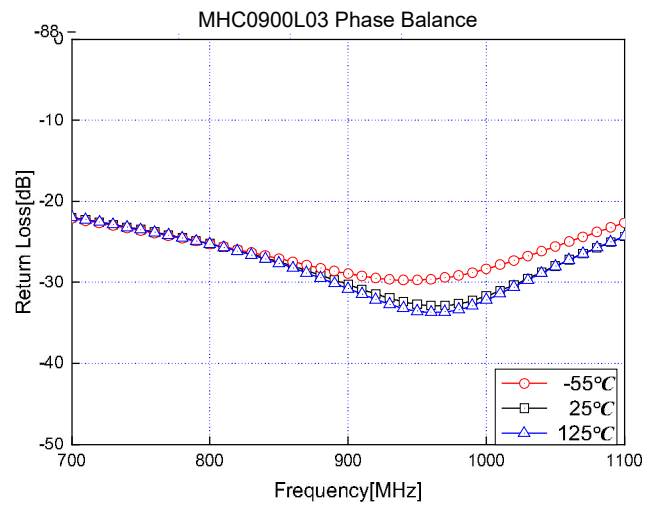
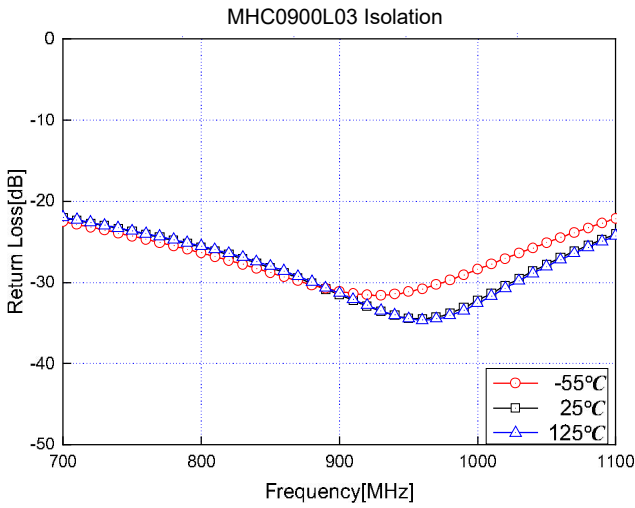
Parameter	Definition	Mathematical Representation
VSWR (Voltage Standing Wave Ratio)	The impedance match of the coupler to a 50W system. A VSWR of 1:1 is optimal.	$VSWR = \frac{V_{max}}{V_{min}}$ Vmax = voltage maxima of a standing wave Vmin = voltage minima of a standing wave
Return Loss	The impedance match of the coupler to a 50W system. Return Loss is an alternate means to express VSWR.	$Return\ Loss\ (dB) = 20 \log \frac{VSWR+1}{VSWR-1}$
Insertion Loss	The input power divided by the sum of the power at the two output ports.	$Insertion\ Loss(dB) = 10 \log \frac{P_{in}}{P_{cp1} + P_{transmission}}$
Isolation	The input power divided by the power at the isolated port.	$Isolation(dB) = 10 \log \frac{P_{in}}{P_{iso}}$
Phase Balance	The difference in phase angle between the two output ports.	Phase at coupled port – Phase at transmission port
Amplitude Balance	The power at each output divided by the average power of the two outputs.	$10 \log \frac{P_{cp1}}{P_{cp1} + P_{transmission}}$ and $10 \log \frac{P_{transmission}}{P_{cp1} + P_{transmission}}$

Characteristics



Isolation

All Use For RF & Microwave



All Use For RF & Microwave

Shenzhen Megsine technology co., ltd www.megsine.com sales@megsine.com may contain us for future information

Ju 09, 2021

Revision	Description	Date
Rev0	Preliminary	2021/6/9