

Description: 1608 LTE Coupler

PART NUMBER: CPL1608LL11RWHEXA

Features:

- Compact size : 1.60x0.80x0.60mm
- RoHS compliant

Applications:

- WWAN Hexa-band
- LTE (0.6-2.7GHz)

ELECTRICAL SPECIFICATIONS

DESCRIPTION	Value
Pass Band	578-2700 MHz
Insertion Loss (dB)	0.15 (Max.) at 25°C
V.S.W.R	1.5 (Max)
Coupling (dB)	30 ~ 39
Operating Temperature	-40 ~ +85°C

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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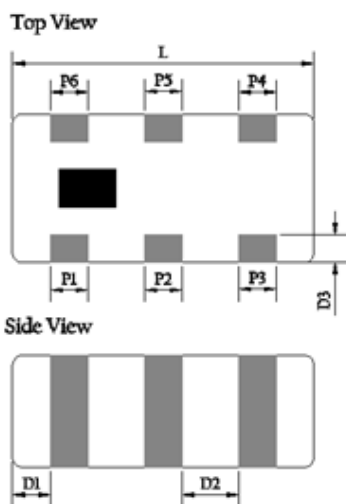


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MECHANICAL DIMENSION

Outline



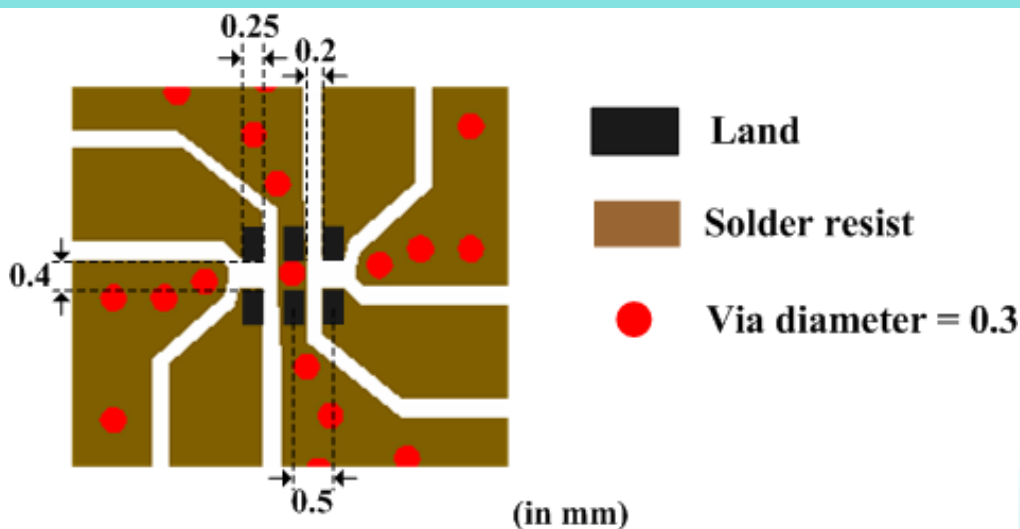
Termination

Terminal name	function
P1	Output
P2	GND
P3	Input
P4	Coupling
P5	GND
P6	50-Ω Term

Mechanical

	Dimension
L (mm)	1.60±0.15
W (mm)	0.80±0.15
T (mm)	0.60±0.15
P1 (mm)	0.20±0.15
P2 (mm)	0.20±0.15
P3 (mm)	0.20±0.15
P4 (mm)	0.20±0.15
P5 (mm)	0.20±0.15
P6 (mm)	0.20±0.15
D1 (mm)	0.20±0.15
D2 (mm)	0.30±0.10
D3 (mm)	0.15±0.10

Reference design of EVB

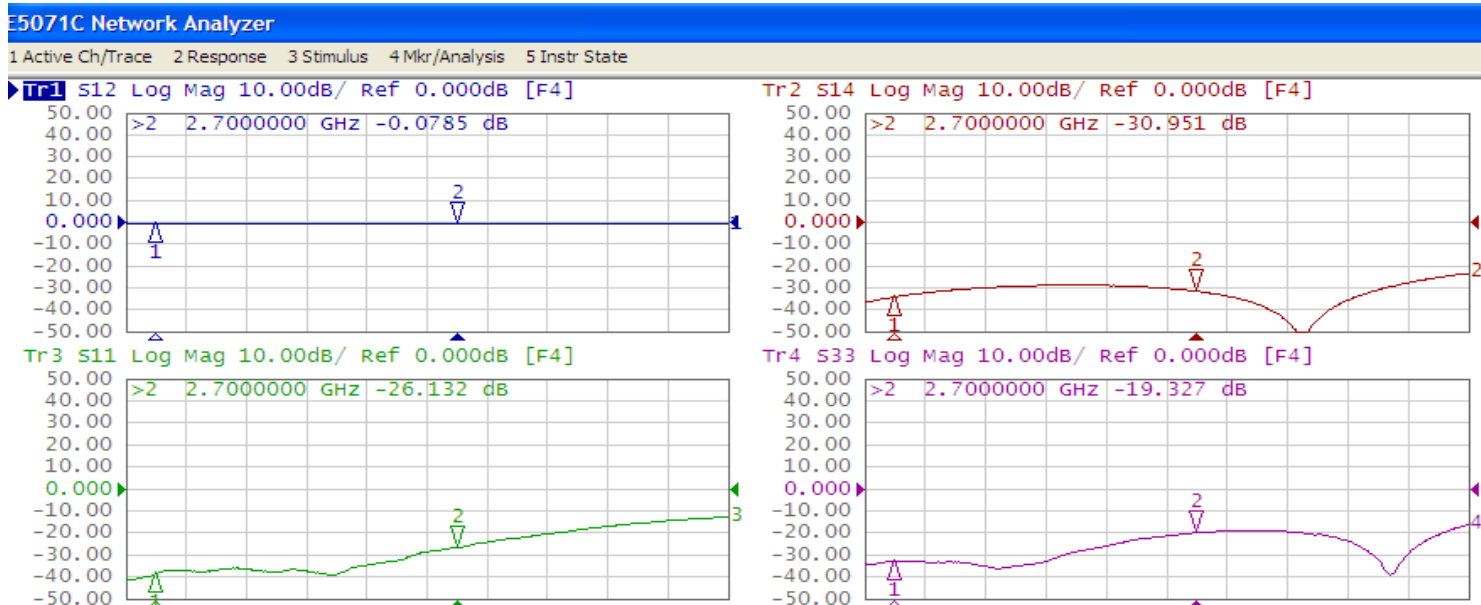


•Line width should be designed to match 50Ω characteristic impedance, depending on PCB

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ELECTRICAL PERFORMANCES



Ch1	Tr1	S12	1	700.00000	MHZ	-0.0497	dB
Ch1	Tr1	S12	>2	2.7000000	GHZ	-0.0785	dB
Ch1	Tr2	S14	1	700.00000	MHZ	-33.458	dB
Ch1	Tr2	S14	2	2.7000000	GHZ	-30.951	dB
Ch1	Tr3	S11	1	700.00000	MHZ	-38.057	dB
Ch1	Tr3	S11	2	2.7000000	GHZ	-26.132	dB
Ch1	Tr4	S33	1	700.00000	MHZ	-32.191	dB
Ch1	Tr4	S33	2	2.7000000	GHZ	-19.327	dB

- Measured on Agilent E5071C Network Analyzer
- Input port: Port 1 (Return loss: S11)
- Output port: Port 2 (Insertion loss: S21)
- Coupling port: Port 4 (Coupling: S41)
- 50 ohm terminal port: Port 3 (Isolation: S31)

Frequency Characteristics

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REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 30, 2020	- New issue