

Description: 0605 2.4G&5GHz Coupler

PART NUMBER: CPL0605AT13R2455A

Features:

Compact size : 0.65x0.5x0.38mm

· RoHS compliant

Applications:

• WLAN,802.11a/b/g

Dual Band 2.4/5 GHz

ELECTRICAL SPECIFICATIONS

DESCRIPTION	Valu	e
Pass Band	2400-2500 MHz	4900-5950 MHz
Impedance	50Ω	
Insertion Loss (dB)	0.55 dB (Max.) at 25°ℂ	0.55 dB (Max.) at 25° C
V.S.W.R	1.5 (Max)	1.5 (Max)
Coupling (dB)	17 ~ 21	10.5 ~ 14.5
Directivity (dB)	13 (Min)	13 (Min)
Operating Temperature	-40 ~ +8	35 ℃

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



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Description: 0605 2.4G&5GHz Coupler

Coupling

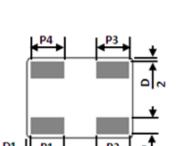
W (mm)

 0.50 ± 0.05

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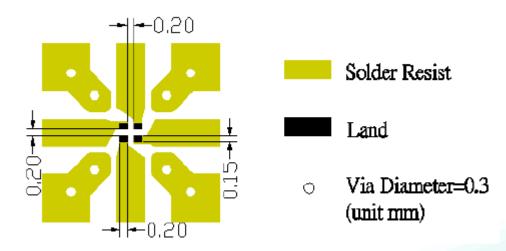
MECHANICAL DIMENSION

Outline Mechanical Termination function Terminal name **Dimension** L (mm) 0.65 ± 0.05



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	(2)	50 ohm terminal	T (mm)	0.38 ± 0.05
<u>+</u>	(3)	Output	P1 (mm)	0.20 ± 0.05
	(4)	Input	P2 (mm)	0.20 ± 0.05
			P3 (mm)	0.20 ± 0.05
			P4 (mm)	0.20 ± 0.05
			D1 (mm)	0.025 ± 0.025
			D2 (mm)	0.025 ± 0.025
			D3 (mm)	0.10 ± 0.05

Reference design of EVB



Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

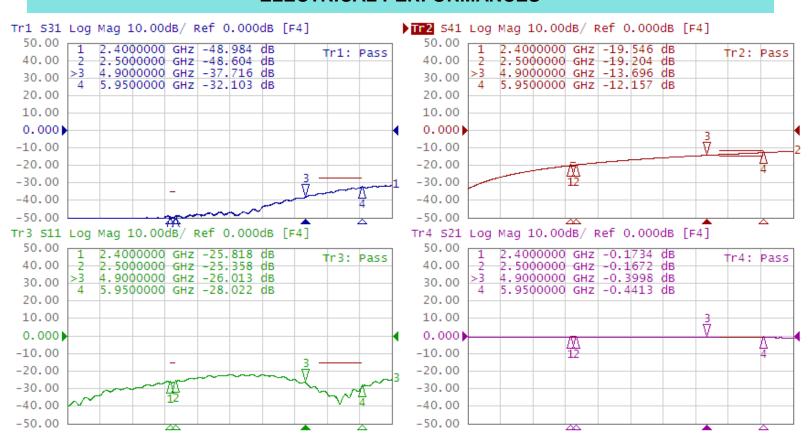




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ELECTRICAL PERFORMANCES



 Measured on Agilent E5071C Network Analyzer

• nput 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		