Thin Film Directional Couplers WiFi Band High Directivity



CP0302P5425ENTR / CP0302A5425ENTR / CP0402Q5425ENTR / CP0603Q5425ENTR HIGH DIRECTIVITY DIRECTIONAL COUPLERS FOR WIFI BANDS

TECHNOLOGY

These High Directivity LGA Couplers are based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The WiFi Bands Couplers are offered in 0302, 0402 and 0603 standard sizes having identical electrical performance.

ROHS

APPLICATIONS:

WiFi

PART NUMBERS

CP0302P5425ENTR CP0302A5425ENTR CP0402Q5425ENTR CP0603Q5425ENTR

QUALITY INSPECTION

Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

• Static Humidity: 85°C, 85% RH, 160 hours

• Endurance: 125°C, IR, 4 hours

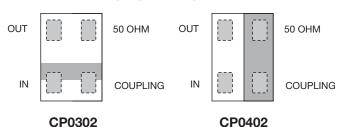
TERMINATION

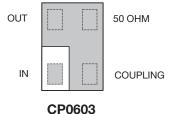
Nickel/Lead-Free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

OPERATING TEMPERATURE

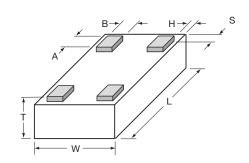
-40°C to +85°C

TERMINALS (Top View)



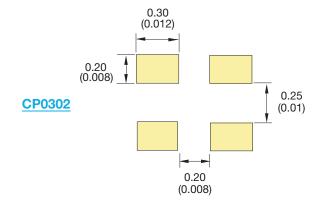


DIMENSIONS (Bottom View) mm (inches)



	CP0302	CP0402	CP0603	
L	0.65±0.04	1.0±0.05	1.6±0.1	
	(0.026±0.002)	(0.040±0.002)	(0.063±0.004)	
w	0.50±0.04	0.58±0.04	0.84±0.1	
	(0.02±0.002)	(0.023±0.002)	(0.033±0.004)	
т	0.25±0.05	0.35±0.05	0.60±0.1	
	(0.01±0.002)	(0.014±0.002)	(0.024±0.004)	
Α	0.20±0.05	0.20±0.05	0.25±0.05	
	(0.008±0.002)	(0.008±0.002)	(0.01±0.002)	
В	0.10±0.04	0.18±0.05	0.20±0.05	
	(0.004±0.002)	(0.007±0.002)	(0.008±0.002)	
S, H	0.025±0.025	0.05±0.05	0.05±0.05	
	(0.001±0.001)	(0.002±0.002)	(0.002±0.002)	

RECOMMENDED PAD LAYOUT DIMENSTIONS mm (inches)



CP0402 / CP0603: see pages 49 / 53



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ELECTRICAL CHARACTERISTICS

	P/N	Frequency [MHz]	Coupling [dB]	I. Loss max. [dB]	Return Loss [dB]	Directivity [dB]
	CP0302P5425ENTR	2,400-2,496	-20±0.5	-0.2	-30	20
		4,900-5,950	-13±0.5	-0.4	-25	20

P/N	Frequency [MHz]	Coupling [dB]	I. Loss max. [dB]	Return Loss [dB]	Directivity [dB]
CP0302A5425ENTR	2,400-2,496	-20±1	-0.2	-30	20
	4,900-5,950	-13±1	-0.4	-25	20

P/N	Frequency [MHz]	Coupling [dB]	I. Loss max. [dB]	Return Loss [dB]	Directivity [dB]
CP0402Q5425ENTR	2,400-2,496	-20±1	-0.3	-30	20
CP0603Q5425ENTR	4,900-5,950	-13±1	-0.4	-25	20

