

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.



APPLICATIONS:

- WiFi

PART NUMBERS

CP0302P5425ENTR
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 CP0402Q5425ENTR
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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

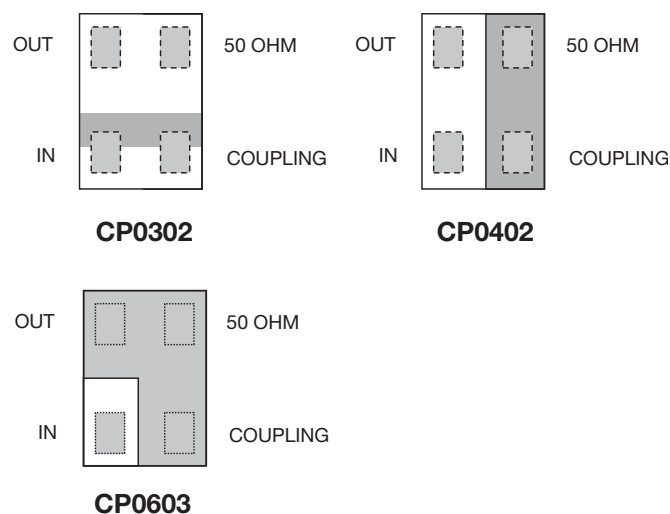
TERMINATION

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

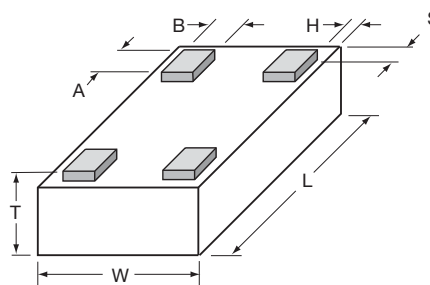
OPERATING TEMPERATURE

-40°C to +85°C

TERMINALS (Top View)



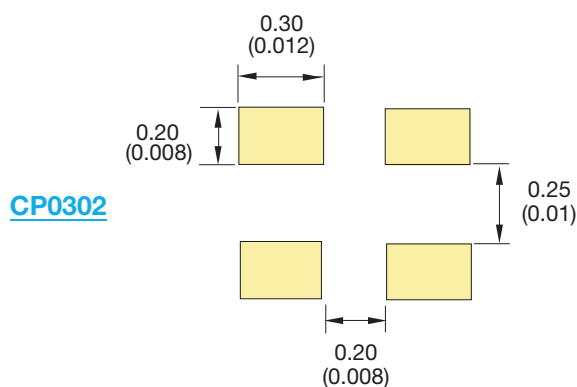
DIMENSIONS (Bottom View) mm (inches)



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

RECOMMENDED PAD LAYOUT DIMENSIONS

mm (inches)



CP0402 / CP0603: see pages 49 / 53

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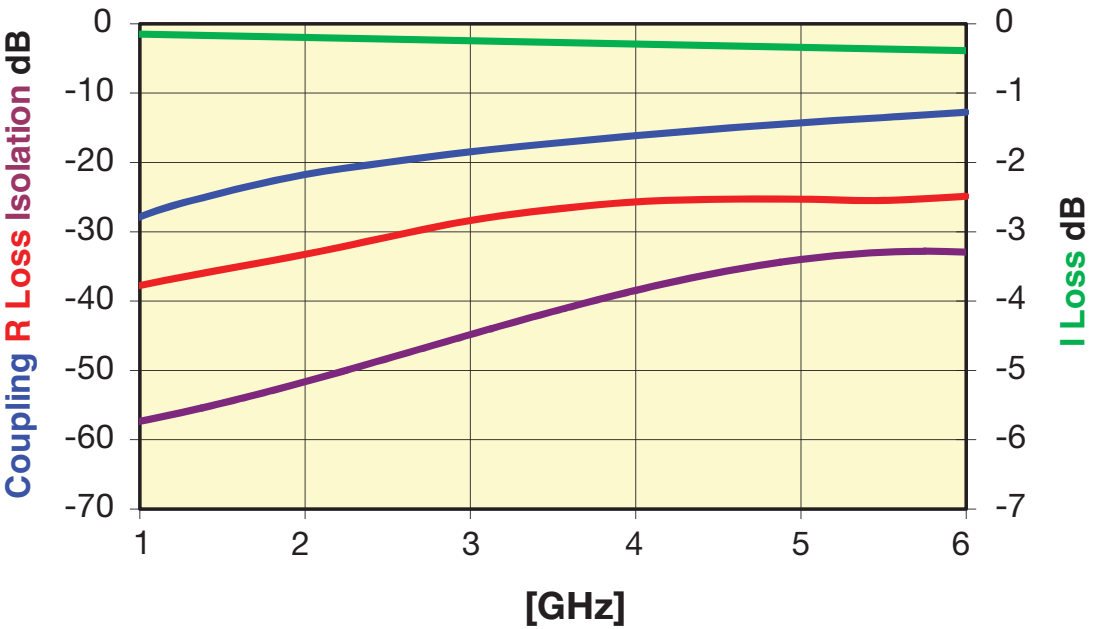


ELECTRICAL CHARACTERISTICS

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 CP0603Q5425ENTR	2,400-2,496	-20±1	-0.3	-30	20
	4,900-5,950	-13±1	-0.4	-25	20



Mouser Electronics

Authorized Distributor

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AVX:

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