

RoHS

ITF TECHNOLOGY

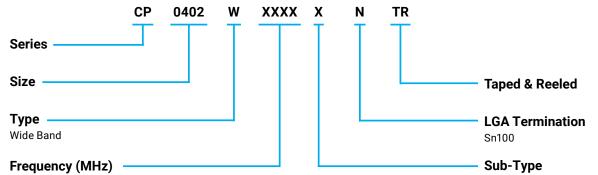


The ITF High Directivity Wide Band LGA Coupler is based on thinfilm multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The Wide Band High Directivity Coupler displays a stable coupling factor over a wide frequency band.

LAND GRID ARRAY ADVANTAGES

- Inherent Low Profile
 - Self Alignment during Reflow
 - Excellent Solderability
 - Low Parasitics
 - Better Heat Dissipation

HOW TO ORDER



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, I_R, 4 hours

TERMINATION

Nickel/Lead Free solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

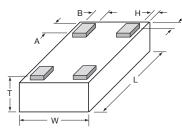
OPERATING TEMPERATURE

-40°C to +85°C

POWER RATING

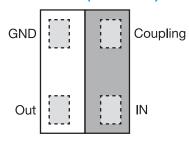
3W RF Continuous

DIMENSIONS (BOTTOM VIEW)

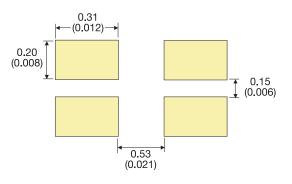


mm (inches)					
L	1.00±0.05				
	(0.040±0.002)				
w	0.58±0.04				
	(0.023±0.002)				
т	0.35±0.05				
	(0.014±0.002)				
Δ	0.20±0.05				
A	(0.008±0.002)				
В	0.18±0.05				
	(0.007±0.002)				
S.H	0.05±0.05				
5,Н	(0.002±0.002)				

TERMINALS (TOP VIEW)



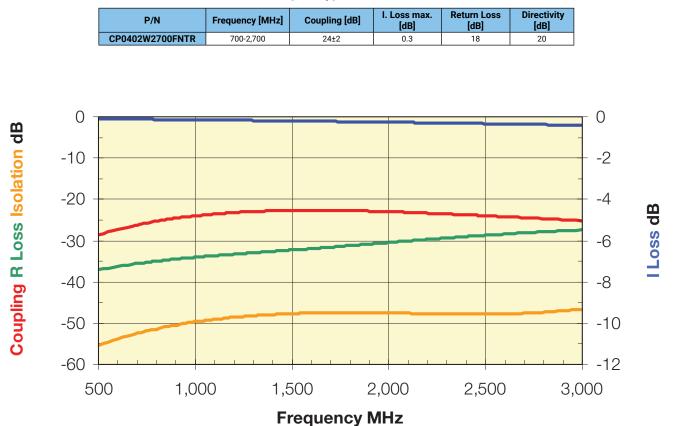
Recommended Pad Layout Dimensions mm (inches)



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TDS-RFM-0078 | Rev 1

Thin-Film RF/Microwave Directional Couplers CP0302/CP0402/CP0603/CP0805 and DB0603N/DB0805 3dB 90° CP0402W2700FNTR Wide Band High Directivity



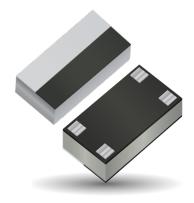
Directional Coupler Type CP0402W2700FNTR

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KYOCERa

Broadband Directional Couplers Lead-Free LGA Termination CP0402W3800GNTR - High Directivity





ITF TECHNOLOGY

The ITF High Directivity LGA Coupler is 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 ITF Coupler is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

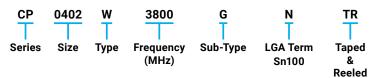
APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

LAND GRID ARRAY ADVANTAGES

- Inherent Low Profile
- · Self Alignment during Reflow
- Excellent Solderability
- Low Parasitics
- Better Heat Dissipation

HOW TO ORDER



FINAL QUALITY INSPECTION

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

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R, 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

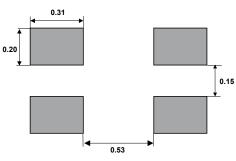
POWER RATING

1W RF Continuous

NOTE

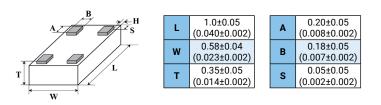
CP0402W3800GNTR includes a built in 50 Ohm resistor and does not require an external 50 Ohm resistor.

RECOMMENDED PAD LAYOUT: (mm)



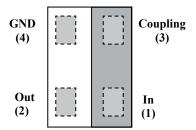
DIMENSIONS: mm (inches)

(Bottom View)



TERMINALS:

(Top View)



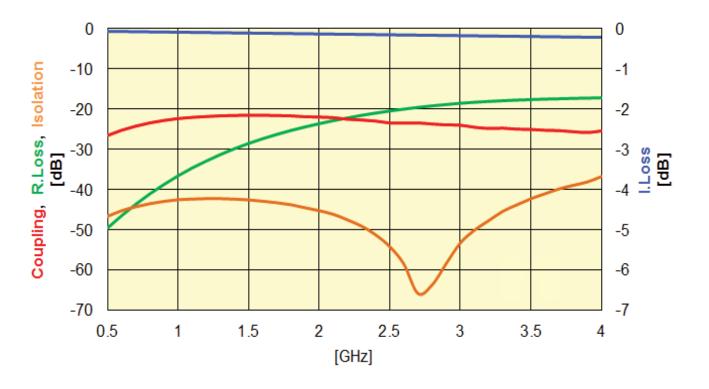
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DIRECTIONAL COUPLER TYPE CP0402W3800GNTR

P/N	FREQUENCY	COUPLING	I. Loss max.	R.Loss	Directivity
	[MHz]	[dB]	[dB]	[dB]	[dB]
CP0402W3800GNTR	700-3800	24±2.5	0.4	18	18

TYPICAL ELECTRICAL PERFORMANCE

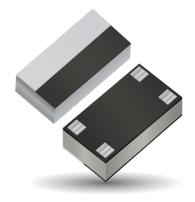


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TDS-RFM-0078 | Rev 1

Broadband Directional Couplers Lead-Free LGA Termination CP0402W4500JNTR - High Directivity





ITF TECHNOLOGY

The ITF High Directivity LGA Coupler is based onthin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly.

The ITF Coupler is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

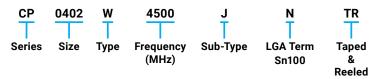
APPLICATIONS

- 5G Application
- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems

LAND GRID ARRAY ADVANTAGES

- Inherent Low Profile
- · Self Alignment during Reflow
- Excellent Solderability
- Low Parasitics
- Better Heat Dissipation

HOW TO ORDER



FINAL 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, I_p, 4 hours

TERMINATION

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

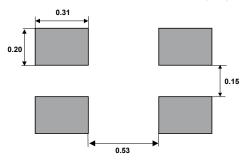
OPERATING TEMPERATURE

-40°C to +85°C

POWER RATING

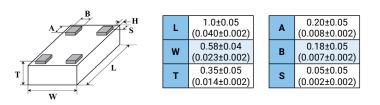
1W RF Continuous

RECOMMENDED PAD LAYOUT: (mm)



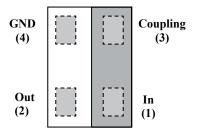
DIMENSIONS: mm (inches)

(Bottom View)



TERMINALS:

(Top View)



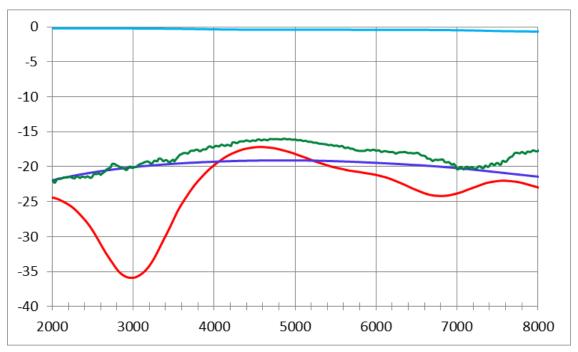
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DIRECTIONAL COUPLER TYPE CP0402W3800GNTR

P/N	FREQUENCY	COUPLING	I. Loss	R.Loss	Directivity
	[MHz]	[dB]	[dB]	[dB]	[dB]
CP0402W4500JNTR	2000-7000	20±2	0.6	15	15

TYPICAL ELECTRICAL PERFORMANCE



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