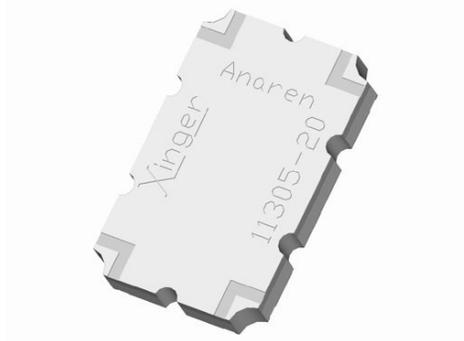




**Directional Couplers
20 dB**

Description:

The 11305-20 is a low profile 20dB directional coupler in an easy to use surface mount package covering 1.0 to 2.0 GHz. The 11305-20 is ideal for power and frequency detection and can be used in most high power designs. Parts have been subjected to rigorous qualification testing and units are 100% tested. They are manufactured using materials with x and y thermal expansion coefficients compatible with common substrates such as FR4, G-10 and polyamide.



Detailed Electrical Specifications:

Frequency	Mean Coupling	Insertion Loss	VSWR
GHz	dB	dB Max	Max:1
1.0 – 2.0	20.0 ± 1.0	0.35	1.20
Freq. Sensitivity	Directivity	Power Handling	Operating Temp.
dB Max	dB Min	Watts	°C
±0.80	18	60	-55 to +85

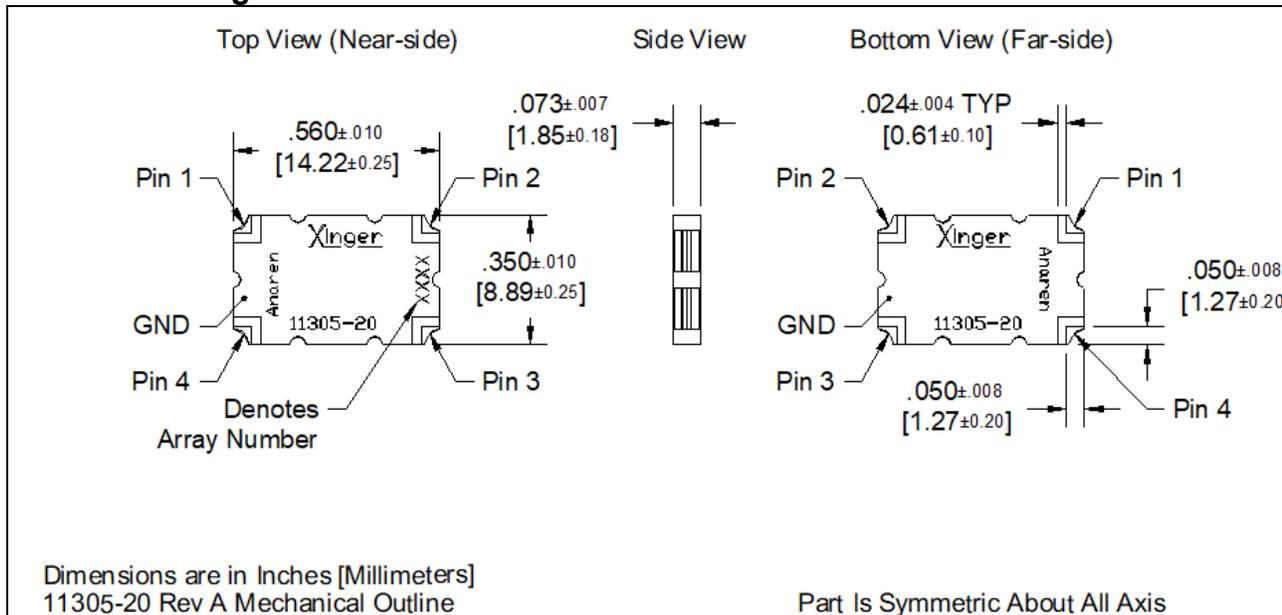
Features:

- 1.0 – 2.0 GHz
- Low loss
- High Directivity
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

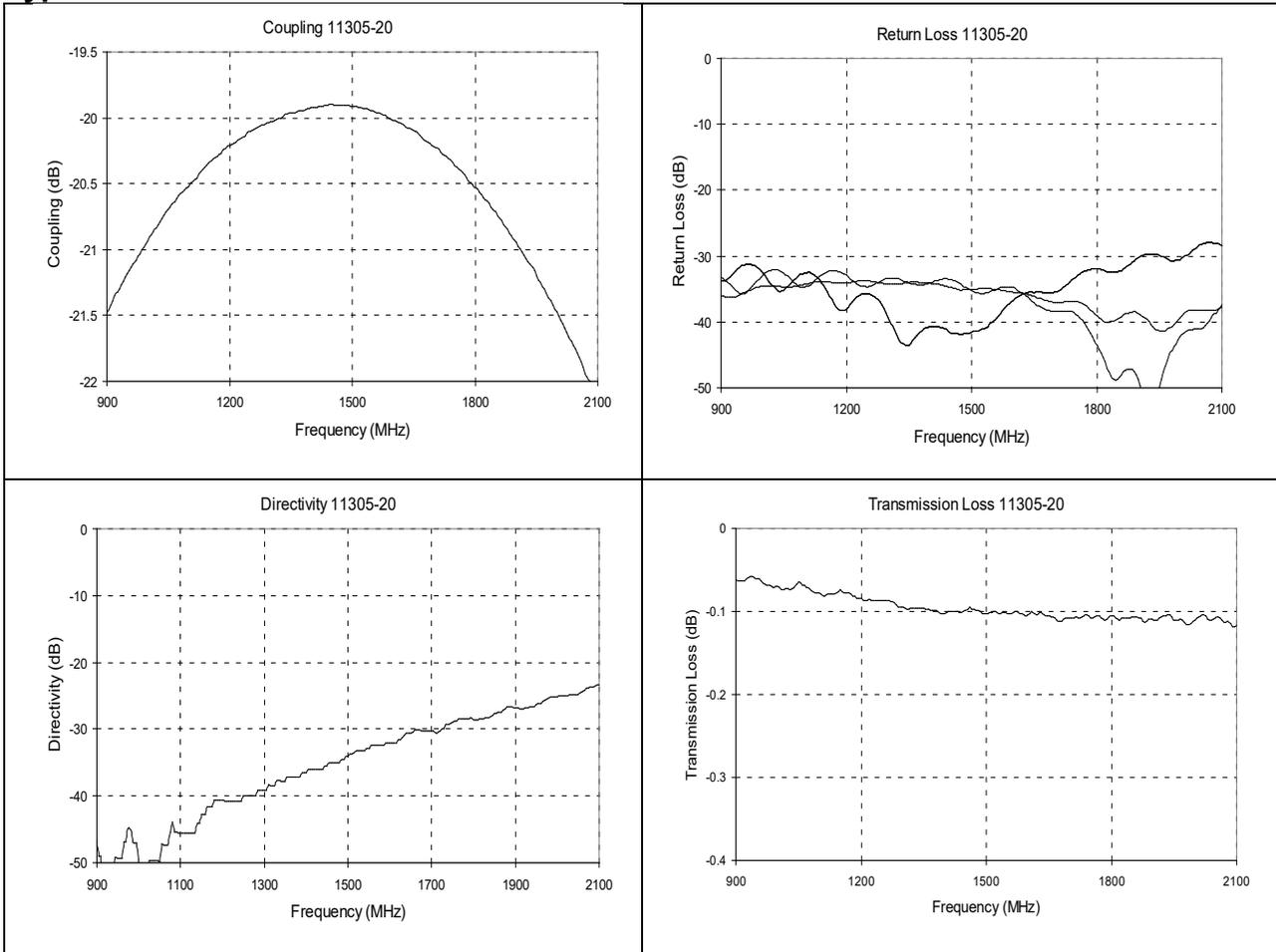
**Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance.

*Specifications subject to change without notice.

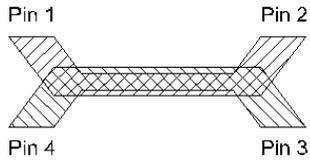
Outline Drawing:



Typical Performance: 0.9 GHz. to 2.1 GHz.



Pin Configuration

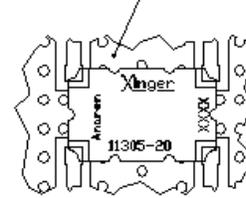


Directional Coupler Pin Configuration

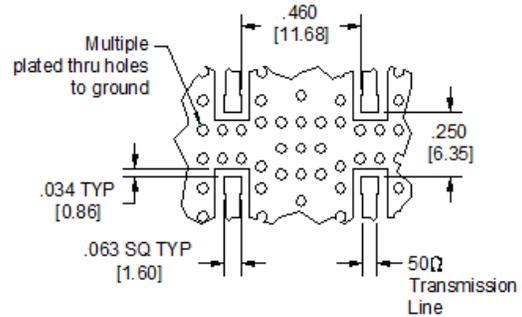
	Pin 1	Pin 2	Pin 3	Pin 4
Configuration #1	Input	Output	Isolated	Coupled
Configuration #2	Output	Input	Coupled	Isolated
Configuration #3	Isolated	Coupled	Input	Output
Configuration #4	Coupled	Isolated	Output	Input

Mounting Footprint

To ensure proper electrical and thermal performance there must be a ground plane with 100% solder connection underneath the part



Part Is Symmetric About All Axis



Dimensions are in Inches [Millimeters]
11305-20 Rev A Mounting Footprint

Contact us:
rf&s_support@ttm.com