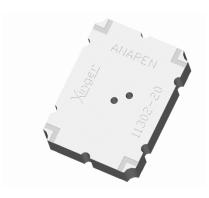




## Directional Couplers 20 dB



### **Description:**

The 11302-20 is a low profile 20dB directional coupler in an easy to use surface mount package covering 190 to 400 MHz. The 11302-20 is ideal for power and frequency detection as well as VSWR monitoring 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.

#### Features:

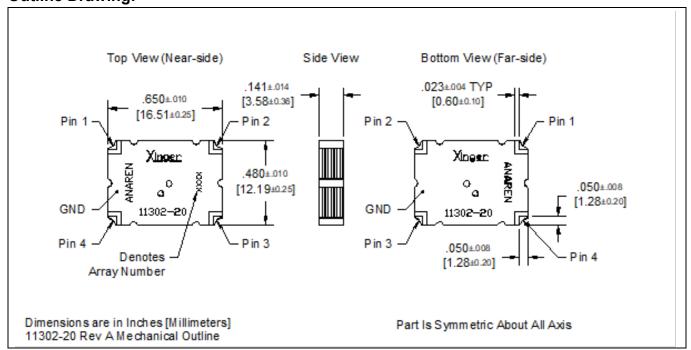
- 190 400 MHz
- Low loss
- High Directivity
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

### Electrical Specifications\*\*

| Frequency   | Mean<br>Coupling  | Insertion<br>Loss | VSWR            | Freq.<br>Sensitivity |  |  |
|-------------|-------------------|-------------------|-----------------|----------------------|--|--|
| MHz         | dB                | dB Max            | Max:1           | dB Max               |  |  |
|             |                   |                   |                 |                      |  |  |
| 190 - 400   | 20 ± 1.5          | 0.30              | 1.15            | ±0.90                |  |  |
| 100 100     | 20 2 1.0          | 0.00              | 1.10            | 20.00                |  |  |
| Directivity | Power<br>Handling | ΘJC               | Operating Temp. |                      |  |  |
| dB Min      | Watts             | °C / Watt         | °C              |                      |  |  |
| 14          | 100               | 5.4               | -55 to +85      |                      |  |  |
|             |                   |                   |                 |                      |  |  |

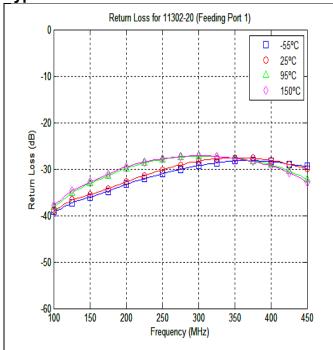
\*\*Specification based on performance of unit properly installed on microstrip printed circuit boards with 50  $\Omega$  nominal impedance. Specifications subject to change without notice.

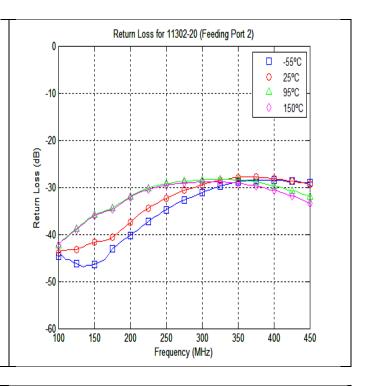
#### **Outline Drawing:**

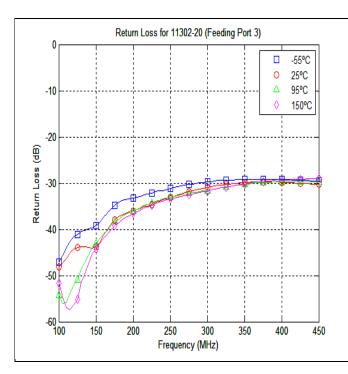


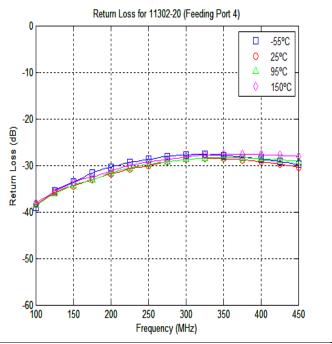


Typical Performance 150 MHz. to 450 MHz

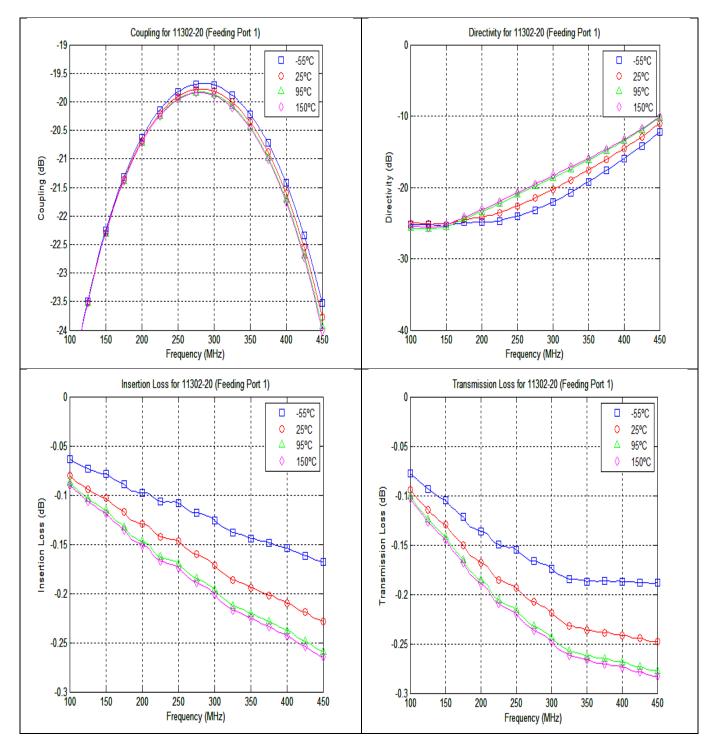








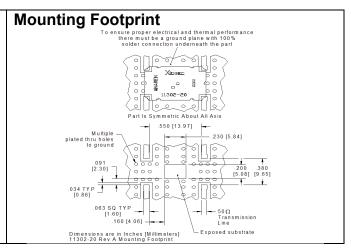






# Pin Configuration Pin 1 Pin 2 Pin 4 Pin 3

| 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    |  |



Contact us:

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