



# Micro Xinger 10dB Directional Coupler



### **Description:**

The 1M710 Micro Xinger® is a low profile, miniature 10dB directional coupler in an easy to use surface mount package designed for ISM and LMDS applications. The 1M710 is for power and frequency detection as well as power injection and is an ideal solution for the ever-increasing demands of the wireless industry for smaller printed circuit boards and high performance. 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. Available in 6 of 6 RoHS compliant tin immersion (1M710S).

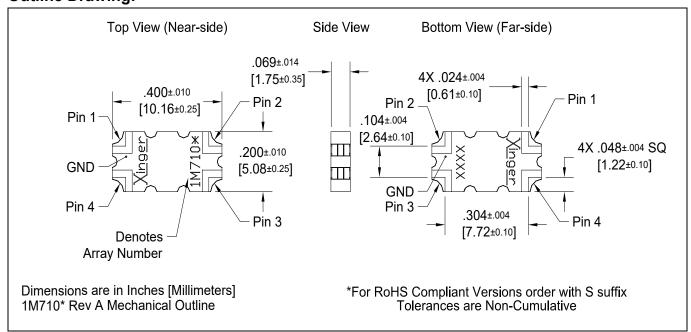
#### Features:

- 3.3 3.7 GHz
- Very Low Loss
- High Directivity
- Surface Mountable
- Tape And Reel
- Available in Lead-Free (as illustrated) or Tin-Lead

## **Electrical Specifications\*\***

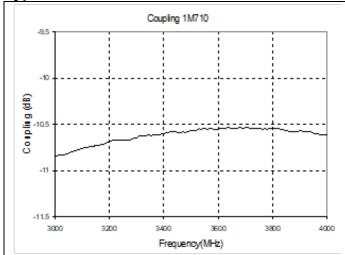
| Frequency   | Mean<br>Coupling  | Insertion<br>Loss | VSWR            | Freq.<br>Sensitivity |
|-------------|-------------------|-------------------|-----------------|----------------------|
| GHz         | dB                | dB Max            | Max : 1         | dB Max               |
| 3.3 – 3.7   | 10.5 ± 0.8        | 0.25              | 1.20            | ± 0.2                |
| Directivity | Power<br>Handling | ΘJC               | Operating Temp. |                      |
| dB Min      | Watts             | °C / Watt         | °C              |                      |
| 20          | 22                | 34.4              | -55 to +85      |                      |

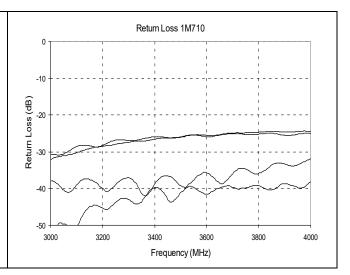
# **Outline Drawing:**

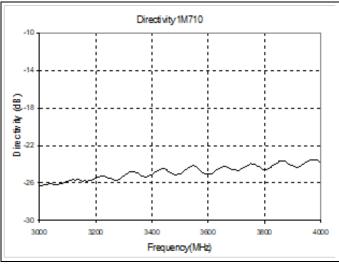


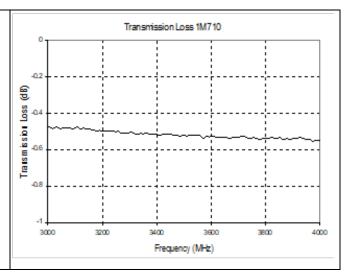


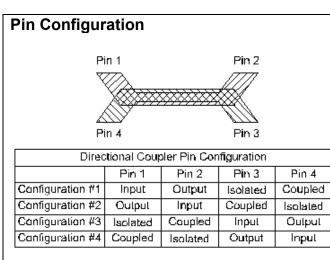
Typical Performance 3.0 GHz. to 4.0 GHz

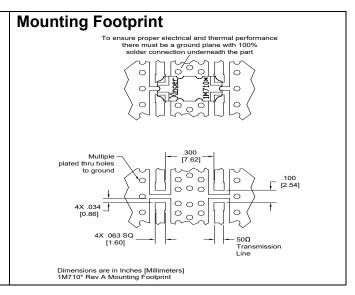






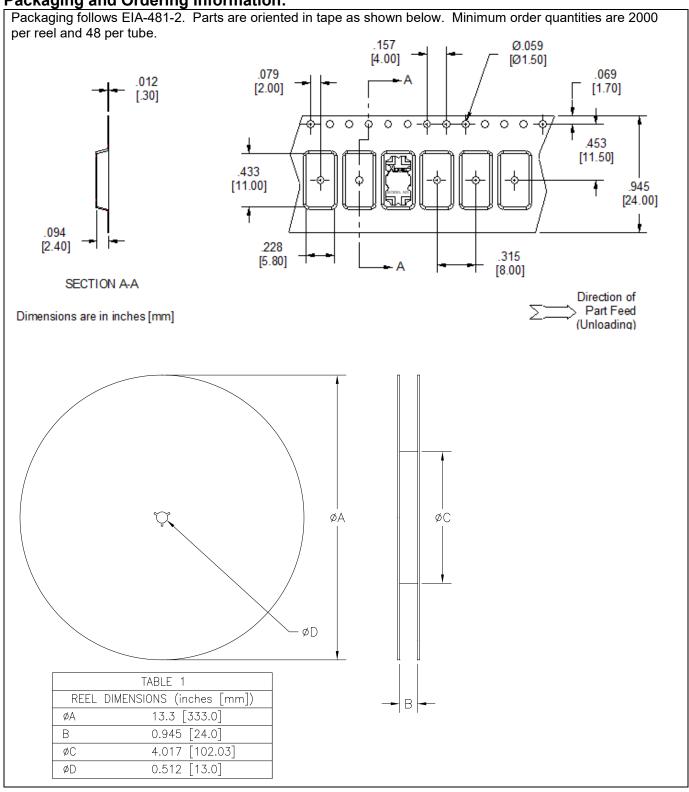








**Packaging and Ordering Information:** 



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