

Lumped Element / Suspended Substrate Diplexer

◆ Description:

Lumped element filters are typically very useful at the lower frequencies but are not practical for high frequency requirements. However, suspended substrates provide excellent performance at the high frequency range while being difficult to work with at the lower frequencies. We are featuring a lumped element and a suspended substrate interconnected to form a diplexer with very good low and high frequency filtering characteristics. These include: high selectivity, high Q, temperature stability and excellent rejection. Also, the mechanical package (3.4" L x 2.3" W x .55" H) is very friendly to those dealing with very rigid size constraints.

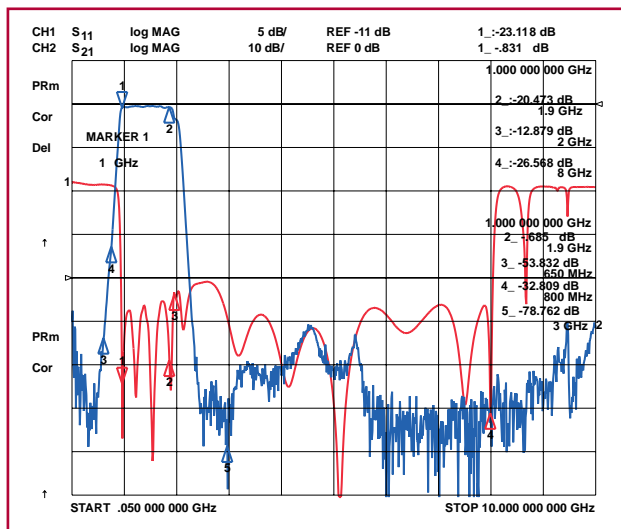
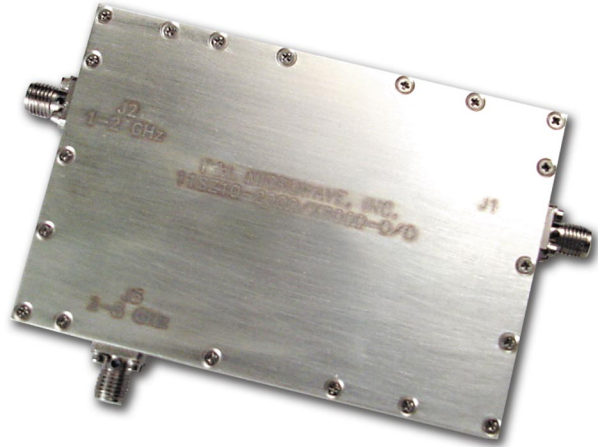
◆ Specifications:

VSWR Channel #1 : 1.8:1 @ 1000-1900 MHZ
 VSWR Channel #2 : 1.8:1 @ 2100-8000 MHZ
 VSWR for Crossover : 2.5:1 @ 1900-2100 MHZ
 Crossover Loss : <5 dB @ 1900-2100 MHZ
 Insertion Loss Channel #1 : <1 dB @ 1000-1900 MHZ
 Insertion Loss Channel #2 : <3 dB @ 2100-8000 MHZ
 Shape Factor for Channel #1 : 3.3:1 , 1- 40 dB

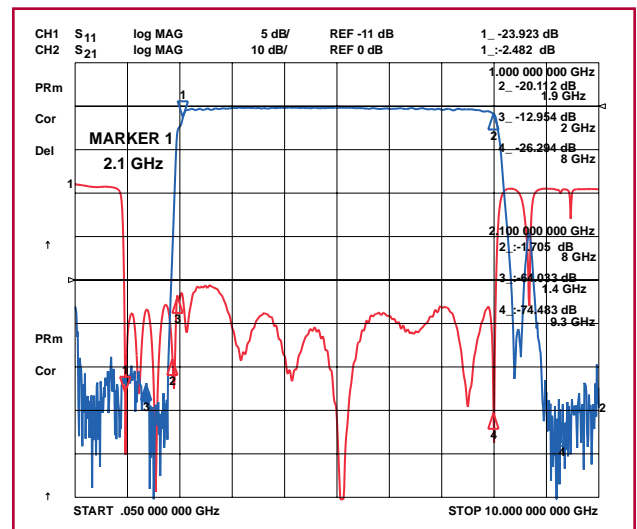
Shape Factor for Channel #2 : 1.4:1 , 3 - 40 dB
 Operating Temperature: -54 to +85°C
 Storage Temperature: -65 to +95°C
 Operating Humidity: -65 to 70%, non-condensing
 Dimensions: 3.4"L x 2.3"W x .55"H
 (excluding connectors)
 Connectors: SMA Female

◆ Applications:

Used in systems designed for reconnaissance aircraft to gather radar intelligence, satellite intelligence and radio intelligence. This information is then used to aid combat forces. This unit, being a part of those systems, is used to help separate the radio frequencies that are of the most interest.



Attenuation



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