

Features

- Low Insertion Loss
- Low Ripple
- Wide passband response

Description

0.2”x0.4” surface-mount cross-band combiner. Developed for use in infrastructure applications.

Filter complies with RoHS standards.



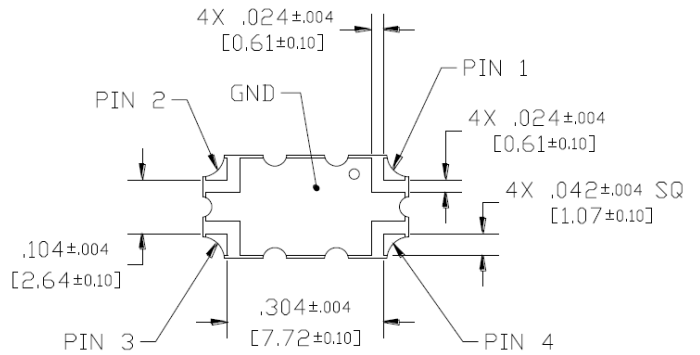
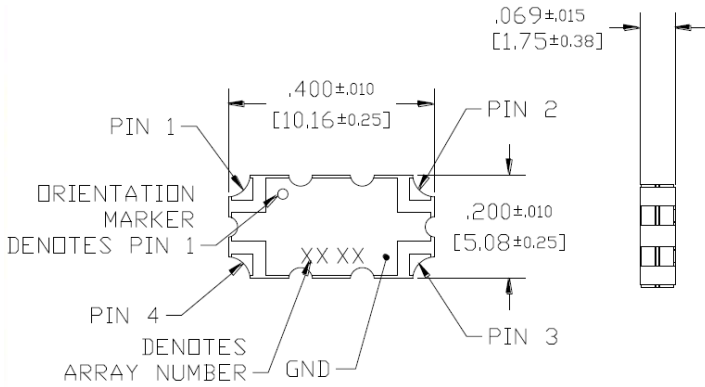
Electrical Specifications

<u>Parameter</u>	Frequency MHz	Typical @ 25°C	Specification @ 25°C	Spec over -40°C to +85°C
Low Band Response				
Passband IL	380 - 2200	-0.3	-0.5	-0.6
	2200 - 2500	-0.7	-0.9	-0.9
	2500 - 2690	-1.0	-1.2	-1.2
Passband Return Loss	380 - 2690	-18.0	-16.0	-16.0
Attenuation	3300 - 6000	-21.0	-20.0	-20.0
High Band Response				
Passband IL	3300 - 3400	-1.0	-1.2	-1.2
	3400-3500	-0.7	-0.9	-0.9
	3500-3800	?	?	?
	3800-4900	?	?	?
	4900-6000	-0.3	-0.5	-0.6
Passband Return Loss	3300 - 6000	-18.0	-16.0	-16.0
Attenuation	380 - 2690	-21.0	-20.0	-20.0
Nominal Impedance		50 Ω		
Power in any port	Average			3 Watt max
Power in any port	Peak			30 Watt max
Power out of common port	Average			6 Watt max
Power out of common port	Peak			60 Watt max

Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

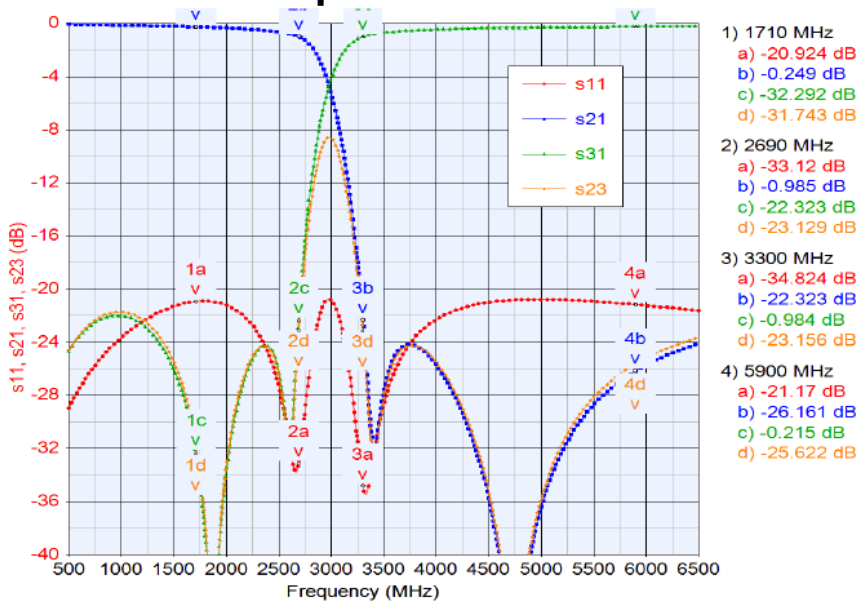
<u>Specification Allowance</u>	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

Mechanical Drawing

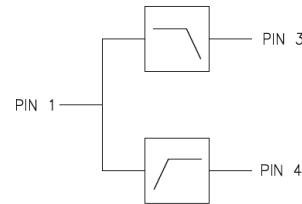


Unit in inch [mm]

Electrical Response

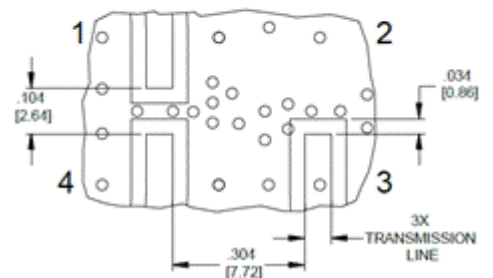
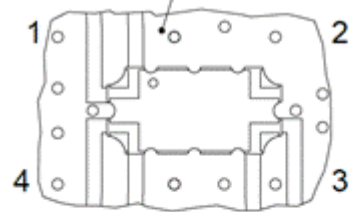


Pin Assignments and PCB Layout



Pin 1	Pin 2	Pin 3	Pin 4
Common Port	GND	Low Pass Port	High Pass Port

To ensure proper electrical and thermal performance there must be a ground plane with 100% solder connection underneath the part orientated as shown with text facing up.



Dimensions are in Inches [Millimeters]