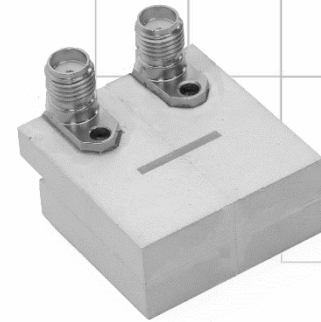


CMB040B - PRELIMINARY

2300-2400 MHz Band 40 Bandpass Filter

Features

- Close-in rejection for Category B Emission compliance
- Low loss with high rejection and low ripple
- Superior power handling and reliability
- Part of the CMB family of Metro-cell TDD Bandpass Filters
- Choice for either PCB mounting with pins, or with various connectors (SMA, SMP-Max, etc.) and mounting brackets



Part Dimensions: ESTIMATED 36 x 30 x 14.5 mm • 75g
Materials: Ag plated ceramic block

Applications

- Wireless Infrastructure applications
- High-performance carrier-grade TDD basestations up to 20W at the antenna port
- Wide-band DAS, Repeaters, or small-cells including support for WiFi co-location

Description

Ceramic waveguide bandpass filter based on ClearPlex technology supports TDD frequency bands. Provides superior rejection, insertion loss, reliability, as well as both peak and average power handling compared to other ceramic technologies. Performance is comparable to compact Air Cavity in dramatically smaller size.

Electrical Specifications

Parameter	Frequency (MHz)	Typical at 25°C	Spec. at 25°C	Spec. over -40°C to +85°C
Nominal Impedance	-	50 ohms	-	-
Average Input Power	-	-	-	32 Watt max
Peak Input Power	-	-	-	320 Watt max

Input-Output Response

Passband Insertion Loss (5 MHz avg)	2300 - 2400	1.0 dB	<1.4 dB max
Passband Insertion Loss (20 MHz avg)	2300 - 2400	0.9 dB	<1.2 dB max
Passband Ripple (over 5MHz)	2300 - 2400		<0.7 dB max
Passband Ripple (over 20MHz)	2300 - 2400		<1.0 dB max
Group Delay Variation (min-max)	2300 - 2400		<40 ns max
Passband Return Loss	2300 - 2400		16 dB min
Attenuation:	1 - 2200		65 dB min
	2201 - 2280	18 dB	15 dB min
	2281 - 2290	12 dB	10 dB min
	2410 - 2419	12 dB	10 dB min
	2420 - 2495	18 dB	15 dB min
	2496 - 2690		65 dB min

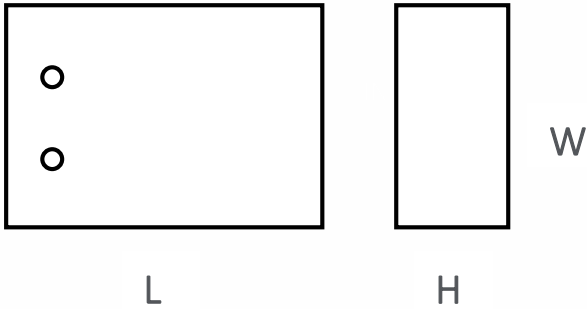
NOTE: Use with RLF0270A lowpass filter to assure high-frequency suppression over 3.4-12.75GHz

Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing

Size: 36 mm (L) x 29.5 mm (W) x 4.2 mm (H)
Weight: 75 g



Packaging and Marking

Electrical Response

