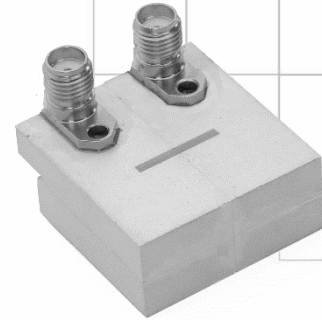


CMB041A - PRELIMINARY

Band 41 CMB Series TDD Bandpass Filter



Part Dimensions: 30.5 × 27.5 × 12.5 mm • 45 g
Materials: Ag plated ceramic block

Features

- 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

Applications

- Wireless Infrastructure applications
- High-performance carrier-grade TDD basestations up to 40.0W 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	-	-	-	60 Watt max
Peak Input Power	-	-	-	600 Watt max

Input-Output Response

Passband Insertion Loss (20 MHz avg)	2496-2690	1.1 dB	1.2 dB max	1.5 dB max
Passband Insertion Loss (5 MHz avg)	2496-2690	1.3 dB	1.5 dB max	1.7 dB max
Passband Return Loss	2496-2690	16 dB	14 dB min	14 dB min
Attenuation:	1-2400	72 dB	70 dB min	70 dB min
	2400-2472	32 dB	30 dB min	30 dB min
	2710-3300	17 dB	15 dB min	15 dB min
	3300-4200			
	4200-6000			

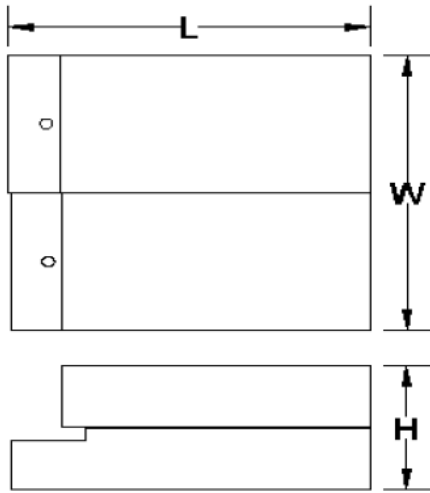
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

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

Mechanical Drawing

Size L 30 m mm x W 27.1 mm x H 12.1 mm

Weight TBD grams typical



PCB Layout

Packaging and Marking

Electrical Response

