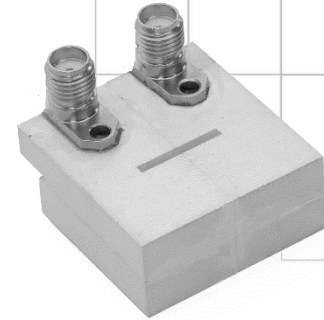


CMB041C - PRELIMINARY

Band 41 CMB Series TDD Bandpass Filter

Features

- Extra 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



Estimated

Part Dimensions: 45 × 40 × 18 mm • 100g
Materials: Ag plated ceramic block

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	0.8 dB max
Passband Insertion Loss (5 MHz avg)	2496-2690	0.9 dB max
Passband Return Loss	2496-2690	16 dB min
Attenuation:	1-2400	70 dB min
	2400-2472	30 dB min
	2472-2476	15 dB min
	2710-3300	15 dB min
	3300-4200	65 dB min

NOTE: Use with RLF0270A lowpass filter to assure high-frequency suppression over 4.2-12.75GHz

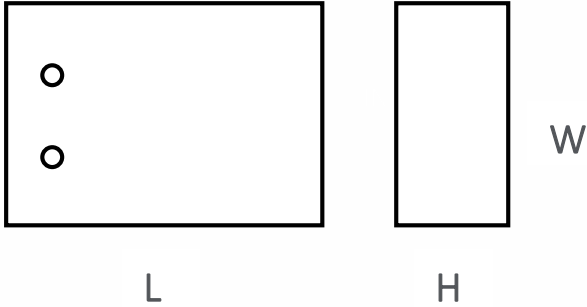
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

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

Mechanical Drawing

Size: 45 mm (L) x 40 mm (W) x 18 mm (H)

Weight: 100 gm



PCB Layout

Packaging and Marking

Electrical Response

