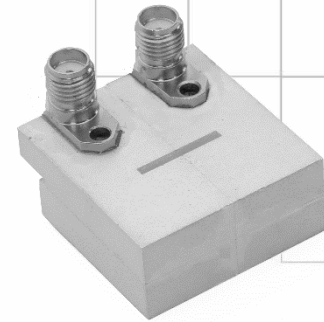


CMB041B - PRELIMINARY

2496-2690 MHz 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



Estimated
Part Dimensions: 45 × 40 × 16 mm • 90g
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)	2496 - 2690	1.1 dB max
Passband Ripple (over 5MHz)	2496 - 2690	0.8 dB max
Group Delay Variation (min-max)	2496 - 2690	100 ns max
Passband Return Loss	2496 - 2690	16 dB min
Attenuation:	1 - 2400	65 dB min
	2400-2450	30 dB min
	2450 - 2476	18 dB min
	2476 - 2486	15 dB min
	2700 - 2704	15 dB min
	2704 - 2750	18 dB min
	2750 - 2800	40 dB min
	2800 - 3400	63 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



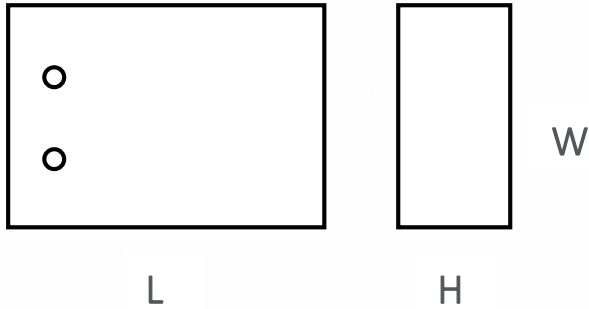
PRELIMINARY - CMB041B

2496-2690 MHz Bandpass Filter

Mechanical Drawing

Size: 45 mm (L) x 40 mm (W) x 16 mm (H)

Weight: 90 gm



Packaging and Marking

Electrical Response

