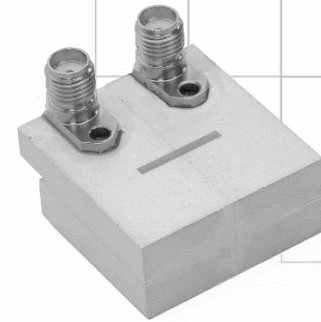


CMB042A - PRELIMINARY

3400-3600 MHz Bandpass Filter



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 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 (20 MHz avg)	3400 - 3600		1.2 dB max
Passband Ripple (over 20MHz)	3400 - 3600		0.7 dB max
Group Delay Variation (min-max)	3400 - 3600		20 ns max
Passband Return Loss	3400 - 3600		16 dB min
Attenuation:	1 - 2690		75 dB min
	2690 - 3300		68 dB min
	3300 - 3380		15 dB min
	3620 - 3700		15 dB min
	3700 - 3800		55 dB min
	3800 - 4200		75 dB min

NOTE: Use with RLF0380A lowpass filter to assure high-frequency suppression over 4.4-12.75GHz

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



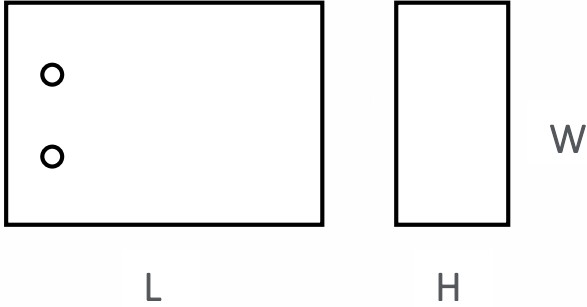
PRELIMINARY - CMB042A

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Mechanical Drawing

Size: 35 mm (L) x 28 mm (W) x 13 mm (H)

Weight: 38 gm



PCB Layout

Packaging and Marking

Electrical Response

