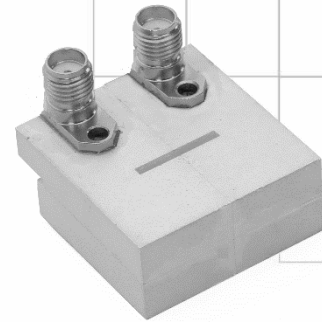


CMB256A - PRELIMINARY 2545-2575 MHz Bandpass Filter

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, or with various connectors (SMP, SMP, SMP-Max, etc.) and mounting brackets



Part Dimensions: 45 x 40 x 20 mm • 80-90 g
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 (10 MHz avg)	2545-2575		2.2 dB max
Passband Ripple	2545-2575		1.1 dB max
Group Delay Variation (min-max)	2545-2575		50 ns max
Passband Return Loss	2545-2575		16 dB min
Attenuation:	1-2485		66 dB min
	2485-2505		55 dB min
	2505-2535		42 dB min
	2582-2595		20 dB min
	2595-2645		42 dB min
	2645-3400		20 dB min
	2645-3400		20 dB min
	3400-5850		Can only spec if used with LPF

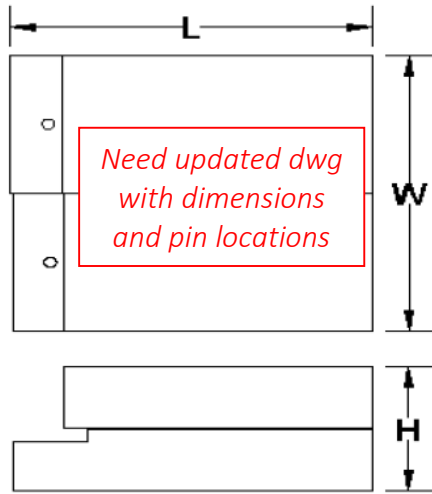
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

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 20 mm (H)

Weight: 80-90g



PCB Layout

Packaging and Marking

Electrical Response

