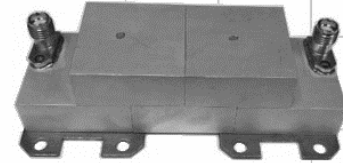


CMB242A

2407.8-2437.8 MHz ClearPlex® Bandpass Filter



Description

ClearPlex® ceramic waveguide frequency-signal Bandpass Filter (BPF) for wireless infrastructure applications.

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	-	-	-	10 Watt max
Peak Input Power	-	-	-	100 Watt max
Lightning Surge at Ant (8 / 20 µsec)	-	-	-	5 kA

Input-Output Response

Passband Insertion Loss (10 MHz avg)	2407.8-2437.8	1.8 dB min
Passband Ripple (over 10 MHz)	2407.8-2437.8	1.8 dB max
Passband Return Loss	2407.8-2437.8	11 dB min
Group Delay	2407.8-2437.8	90 ns max
Group Delay Variation	2407.8-2437.8	65 ns max
Attenuation:	1 - 2000	60 dB min
	2001 - 2200	30 dB min
	2445.7-2475.7	40 dB min
	2496 - 2690	30 dB min
	2690 - 3700	30 dB min

NOTE: no specific attenuation assured over 3.7GHz

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

See separate mechanical drawing file.

Connectors: SMA-type (F) connectors

Finish: Silver metal (exterior tarnish does not affect performance).

Environmental Conditions

Humidity: Not affected by non-condensing humidity (5%-95%)

Altitude/Air Pressure: Not affected by Altitude or Air Pressure

Shock & Vibration: Not specified or tested at component-level.

Electrical Response

