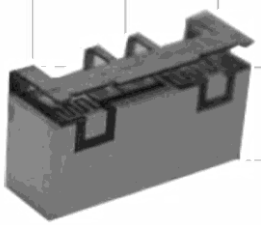
CER1041A

Band 41 UPB Series TDD Bandpass Filter



Part Dimensions: 16.5 × 8.5 × 5.0 mm EST • 2.3 g EST
Materials: Ag plated ceramic block with tin plated brass shield

Features

- Low Loss with High Rejection
- Low ripple
- Universal footprint across family for all TDD bands

Applications

- Wireless Infrastructure applications
- High-performance carrier-grade TDD.

Description

Surface mount ceramic bandpass filter supports a universal footprint across all TDD frequency bands enabling the use of a common system PCB. Superior rejection, insertion loss, reliability, as well as both peak and average power handling compared other bandpass filter technologies.

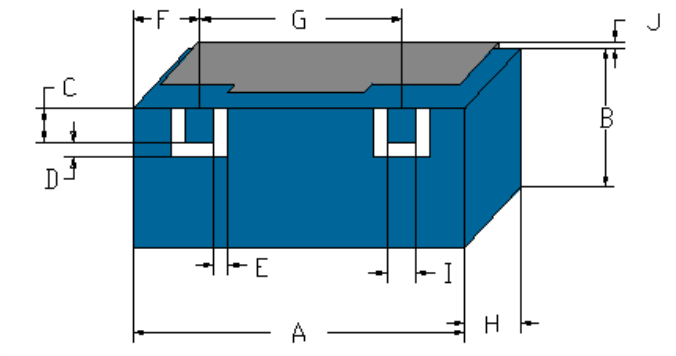
Electrical Specifications

Parameter	Frequency (MHz)	Typical at 25°C	Spec. at 25°C	Spec. over -40°C to +105°C
Nominal Impedance	-	50 ohms	-	-
Average Input Power	-	-	-	2.0 Watt max
Peak Input Power	-	-	-	20 Watt max
Input-Output Response				
Passband Insertion Loss (10 MHz avg)	2496-2690	1.1 dB	1.3 dB max	1.4 dB max
Passband Ripple	2496-2690	0.5 dB max	0.7 dB max	0.7 dB max
Passband Return Loss	2496-2690	14 dB	10 dB min	10 dB min
Attenuation:	1-2400		30 dB min	30 dB min
	2401-2456		10 dB min	10 dB min
	2730-3399		10 dB min	10 dB min
	3400-3800		30 dB min	30 dB min
	4000-5400		20 dB min	20 dB min

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.

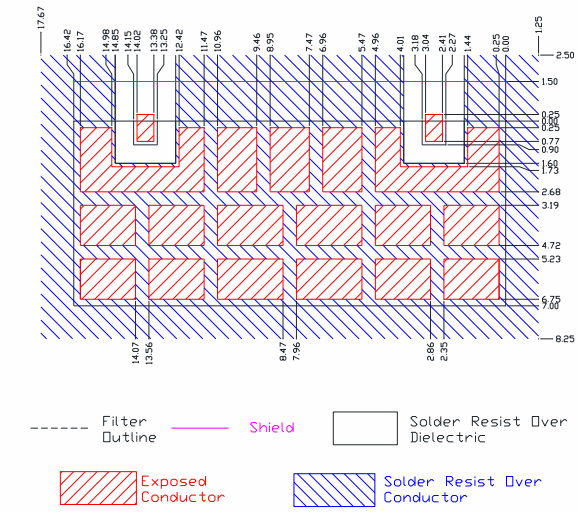
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	16.42	max
B	7.00	max
C	0.90	0.13
D	0.70	0.13
E	0.70	0.13
F	2.73	0.13
G	10.97	0.13
H	5.00	max
I	0.90	0.13
J	1.50	max

PCB Layout



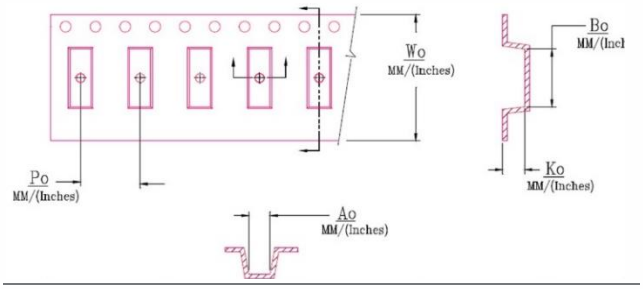
Packaging and Marking

Dimension	Units	Spec.
Reel Diameter	mm	330
Reel Weight	kg	2.5
Reel Quantity	ea.	1000

Product Marking

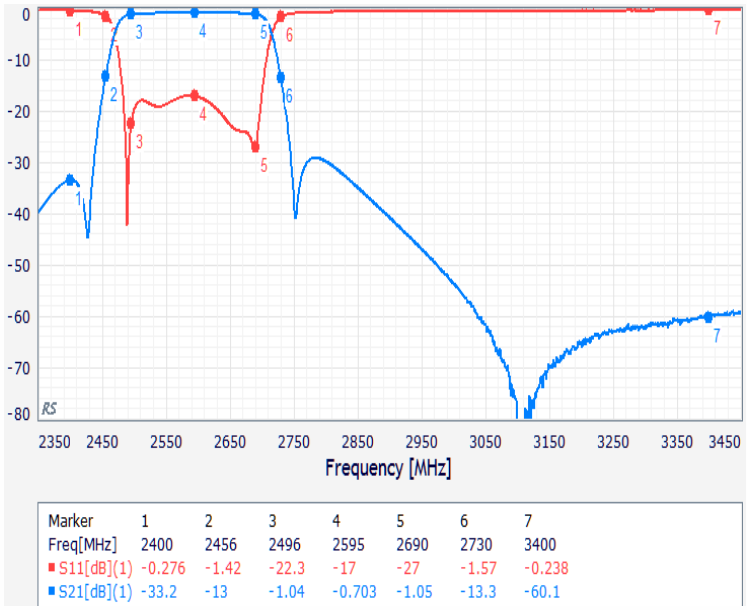
CTS
041
YWW

Customer Feed Direction → → →



W_o	A_o	B_o	K_o	P_o
0.945 in	0.319 in	0.654 in	0.193 in	0.472 in
24.0 mm	8.1 mm	16.6 mm	4.9 mm	12.0 mm

Electrical Response



Marker	1	2	3	4	5	6	7
Freq[MHz]	2400	2456	2496	2595	2690	2730	3400
S11[dB](1)	-0.276	-1.42	-22.3	-17	-27	-1.57	-0.238
S21[dB](1)	-33.2	-13	-1.04	-0.703	-1.05	-13.3	-60.1