CER0817B

880 MHz BPF

Revision B – Origin Date: December 2, 2010 – Revision Date: July 11, 2011

Features

- Low Loss
- High Rejection
- Excellent Return Loss

Description

Surface mount, silver (Ag) coated neodymium ceramic filter. Developed for use in 880 MHz infrastructure applications.

Weight: 7.04 grams typical

Material: Filter is composed of a ceramic block plated with Ag.

Filter complies with RoHS standards.

Electrical Specifications

Parameter	Frequency MHz	Typical @ 25ºC	Specification @ 25ºC	Spec over -40ºC to +85ºC
Passband Iloss	829 - 934	0.8	-1.4	-1.6
Passband Ripple	849 - 914	0.4	0.7	0.8
Passband Return Loss @ Port 1	849 - 914	-15.0	-14.0	-14.0
Passband Return Loss @ Port 2	849 - 914	-15.0	-14.0	-14.0
Passband Phase Variation from linear	849 - 914	+/- 11º	+/- 16º	+/- 16º
Attenuation	0.1 - 230	-70.0	-25.0	-25.0
	230 - 700	-30.0	-15.0	-15.0
	1050 - 1350	-55.0	-50.0	-50.0
	1679 - 1740	-52.0	-25.0	-25.0
Power into any port		1 Watt max		

Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

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

Mechanical Drawing

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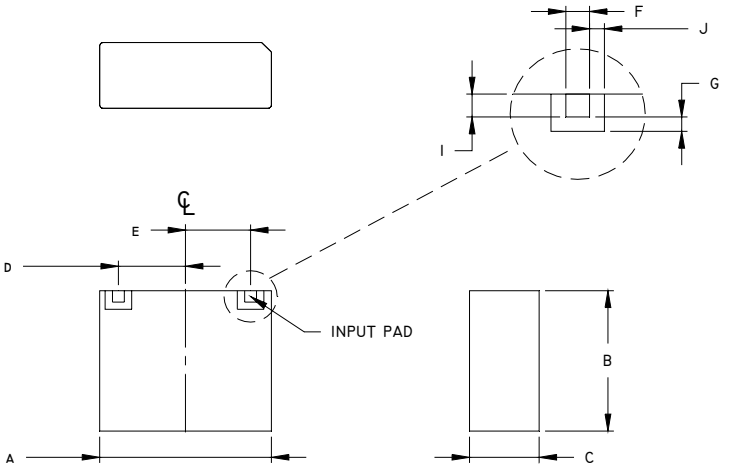
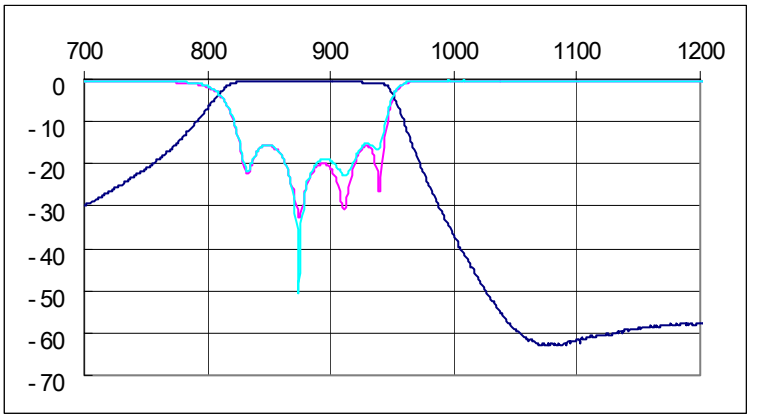
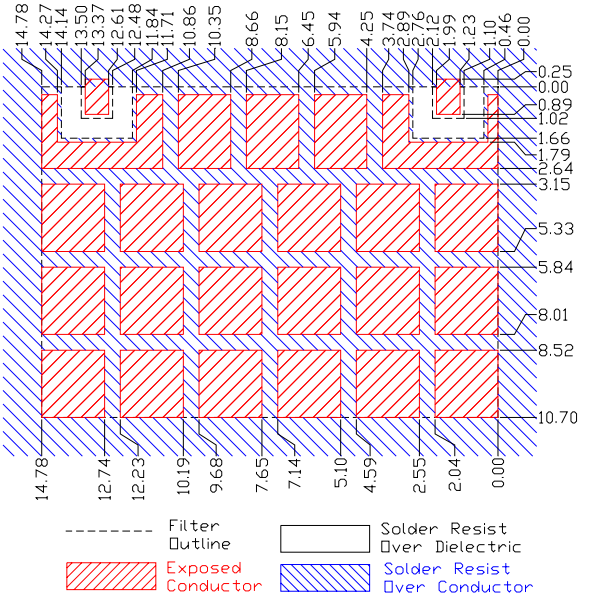


Dim	Nominal (mm)	Tolerance (mm) +/- or max	Critical Parameters Noted by X
A	14.78	Max.	X
B	10.9	Max.	X
C	6.0	Max.	X
D	5.78	0.13	X
E	5.60	0.13	X
F	1.02	0.13	X
G	0.64	0.13	X
I	1.02	0.13	X
J	0.64	0.13	X

Electrical response

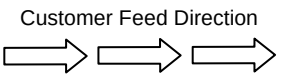


PCB Layout



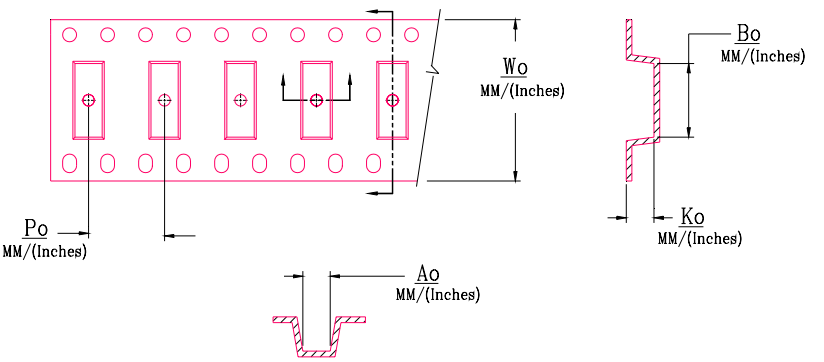
Packaging and Marking

Customer Feed Direction



DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	2.3
REEL QUANTITY	ea.	250

CTS
17B
YWW



Wo Inches/mm	Ao Inches/mm	Bo Inches/mm	Ko Inches/mm	Po Inches/mm
0.945"/24	0.594"/15.08	0.433"/11.0	0.248"/6.30	0.787"/20.0