Features
• Low Ripple
• High Rejection
• Low Loss

Description
Surface mount, silver (Ag) coated ceramic filter. Developed for use in DCS repeater and base station applications, CTS Monoblock LR Series Filters are designed to minimize ripple and maximize rejection.

Weight: 4.7 grams typical

Material: Filter is composed of a ceramic block coated with Ag and a shield made of nickel silver plated steel.

Filter complies with RoHS standards.

Electrical Specifications
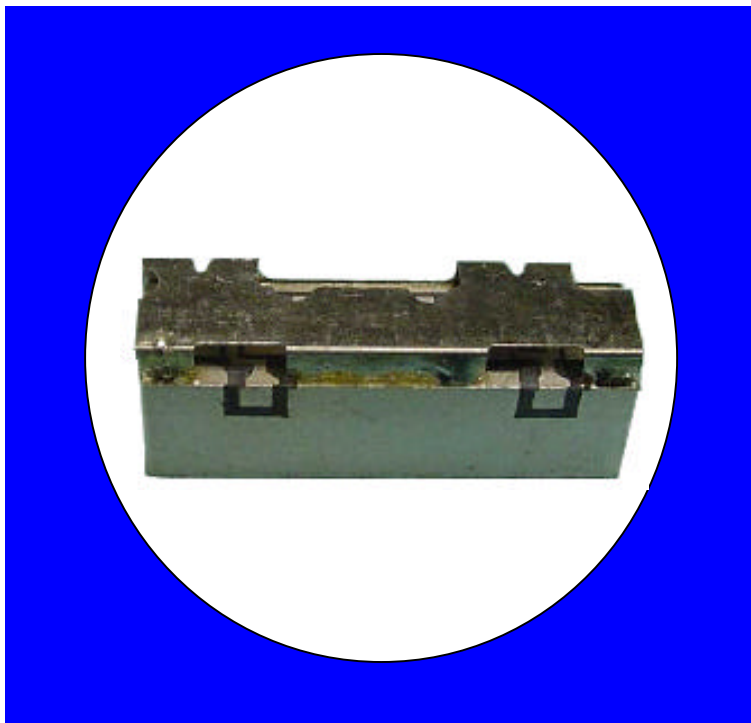
Parameter	Frequency (MHz)	Typical @ 25ºC	Specification @ 25C	Spec. over -40ºC to +85ºC
Passband Insertion Loss	1710-1785	1.8 dB	2.1 dB	2.4 dB
Passband Ripple	1710-1785	0.75 dB	1.0 dB	1.2 dB
Passband Return Loss	1710-1785	12.5 dB	10.0 dB	10.0 dB
Attenuation:	1805-1880	27.0 dB	24.0 dB	24.0 dB
	1690	23.0 dB	20.0 dB	20.0 dB
Power into any port		2 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
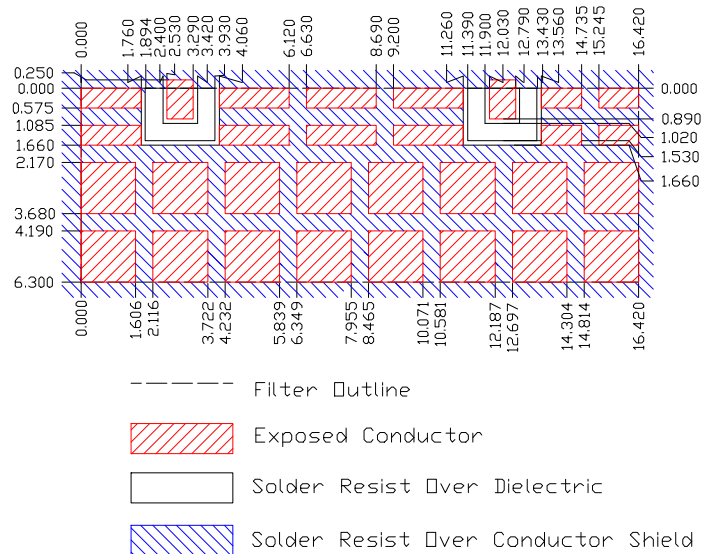Return Loss   1.0 dB
Stopbands   1.0 dB

CER0242B

Mechanical Drawing
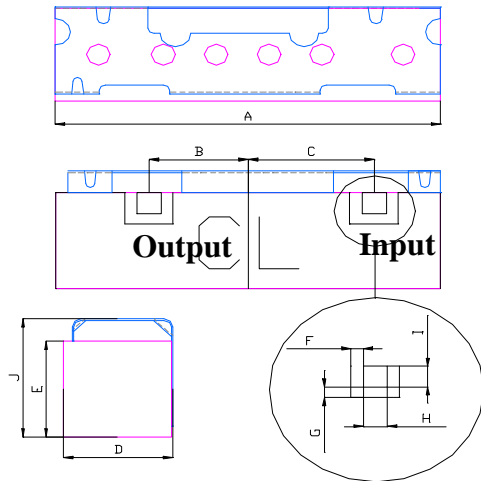
Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	16.42	max
B	4.2	0.13
C	5.3	0.13
D	4.85	max
E	6.3	max
F	0.51	0.13
G	0.51	0.13
H	1.02	0.13
I	1.02	0.13
J	7.4	max

Electrical response

PCB Layout

------ Filter Outline

Exposed Conductor

Solder Resist Over Dielectric

Solder Resist Over Conductor Shield

Packaging and Marking

Customer Feed Direction

CTS
42B
YWW
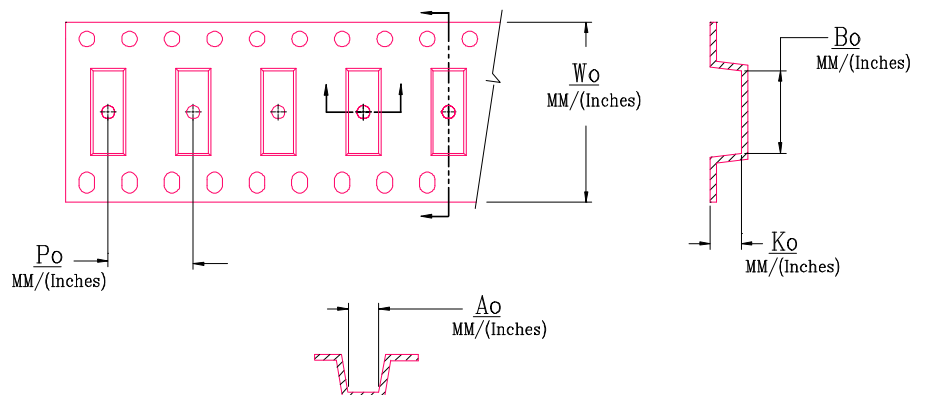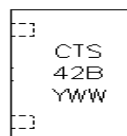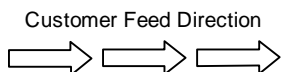
DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	3.1
REEL QUANTITY	ea.	500

MODEL NO.	Wo	Ao	Bo	Ko	Po
CER0242B	32.0/(1.260)	7.60/(0.299)	16.7/(0.657)	5.10/(0.201)	12.0/(0.472)