Ceramic Monoblock Diplexer Filter



Model KFF6491A Technical Data

Features:

- Small Size
- Excellent Rejection
- SMD

Description and Applications:

This is a four pole monoblock diplexer filter in the aeronautical and radionavigation spectrum used in GPS L1 & L2 applications.



Electrical Specifications

Low Band	Frequency	Specifications @ 25° C
Insertion Loss	1226 MHz to 1228 MHz	2.5 dB max.
Return Loss	1222 MHz to 1232 MHz	10.0 dB min.
Attenuation	1127 MHz	30.0 dB min.
Attenuation	1327 MHz	30.0 dB min.
High Band	Frequency	Specifications @ 25° C
Insertion Loss	1574 MHz to 1576 MHz	2.5 dB max.
Return Loss	1570 MHz to 1580 MHz	10.0 dB min.
Attenuation	1475 MHz	30.0 dB min.
Attenuation	1675 MHz	30.0 dB min.
Power Rating		1W
Impedance		50Ω

NOTE: Supplier shall test each filter to the critical electrical specifications listed above or better. Any subsequent audits may deviate due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

Specification Typical Allowance

 Insertion Loss
 0.1dB

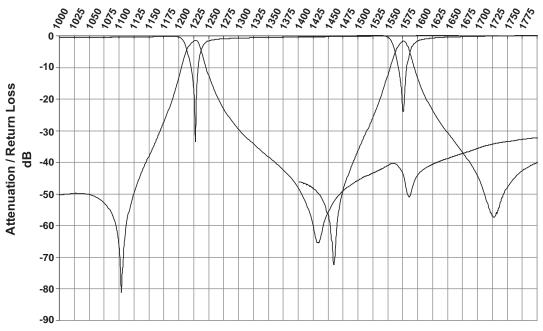
 Return Loss
 1.0dB

 Stopbands
 1.0dB

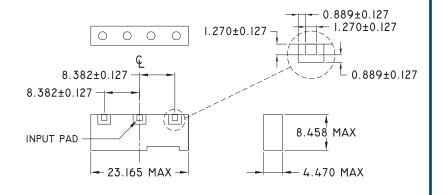


Typical Response Curve

Frequency, MHz



Mechanical Dimensions



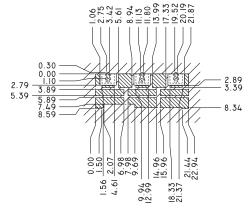
ALL DIMENSIONS IN MM.

Part Marking

Y = LAST DIGIT OF YEAR WW = SEQUENTIAL WEEK NUMBER

KFF649IA CTS YWW

PC Board Layout



FILTER OUTLINE

NOTES:

EXPOSED CONDUCTOR

SOLDER RESIST OVER DIELECT

SOLDER RESIST OVER CONDUCTOR

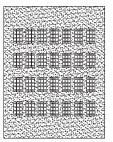
I. NO CONDUCTOR BENEATH I/O GAP.

SOLDER RESIST OVER DIELECTRIC 2. 1/O PADS 0.3 MM SMALLER THAN FILTER PADS.

3. I/O GAPS 0.5 MM LARGER THAN FILTER GAPS.

4. EXPOSED CONDUCTOR PADS ALIGN TO EDGE OF FILTER

Packaging



Contact Information:

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