

# Ceramic Monoblock Duplex Filter

# CTS

WIRELESS COMPONENTS

# Model KFF6567A Technical Data

## Features:

- Small Size
- High Performance
- SMD

## Description and Applications:

This monoblock Duplexer filter is primarily designed for Cellular Band (CDMA and AMPS) applications at 824-894 MHz.



## Electrical Specifications

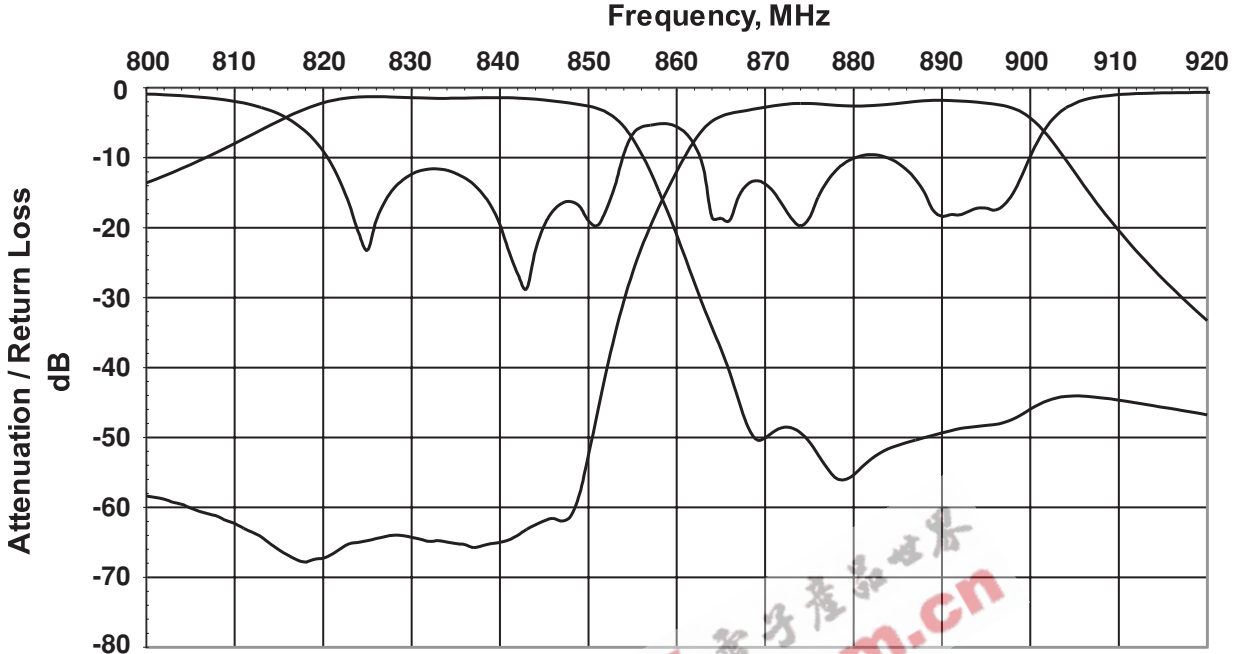
TX to Antenna Response	Frequency	Specifications @ 25° C
Insertion Loss	824 MHz to 849 MHz	2.5 dB max.
Return Loss @ TX		10.0 dB min.
Attenuation	779 MHz to 804 MHz	10.0 dB min.
Attenuation	869 MHz to 894 MHz	45.0 dB min.
<b>Antenna to RX Response</b>		
Insertion Loss	869 MHz to 894 MHz	3.3 dB max.
Return Loss @ RX		8.0 dB min.
Attenuation	824 MHz to 849 MHz	52.0 dB min.
Attenuation	914 MHz to 939 MHz	20.0 dB min.
Attenuation	959 MHz to 984 MHz	45.0 dB min.
Power Rating		3W
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:

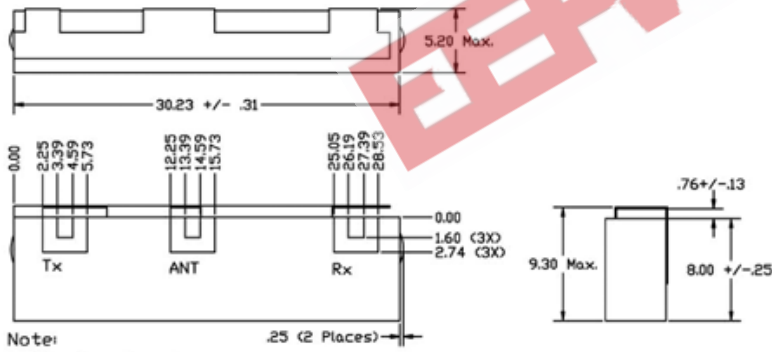
Specification	Typical Allowance
Insertion Loss	0.1dB
Return Loss	1.0dB
Stopbands	1.0dB

Rev. 1

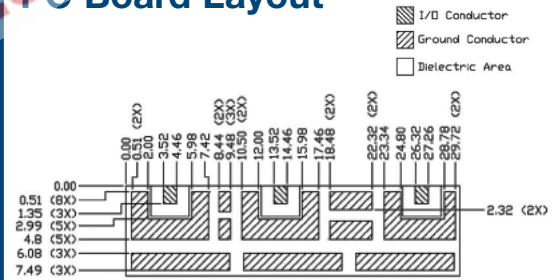
**Typical Response Curve**



**Mechanical Dimensions**



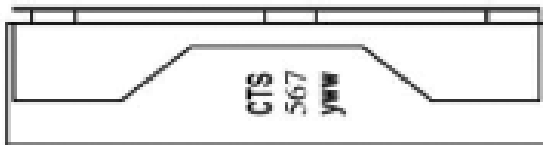
**PC Board Layout**



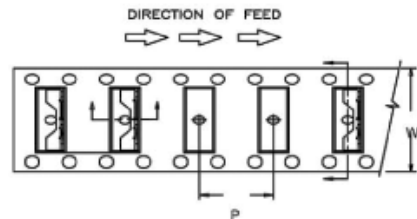
- Notes:
1. All dimensions in mm
  2. Tolerances are +/- .13
  3. Ground plane under Tx, Rx and Antenna pads and the dielectric area that surrounds them should be at least .53 mm below top surface. There should also be no active traces under these areas.
  4. Via ground holes (not shown in drawing) should be .254 mm in diameter with a pitch of 1.27 mm. There should be a minimum of 2 via holes per ground pad.

**Part Marking**

Y = LAST DIGIT OF YEAR  
 WW = SEQUENTIAL WEEK NUMBER



**Packaging**



- Notes:
1. Dimension "W" is equal to 44 mm (width of tape).
  2. Dimension "P" is equal to 20 mm (pitch of tape).

**Contact Information:**

CTS WIRELESS COMPONENTS, INC. / 171 Covington Drive / Bloomingdale, IL 60108  
 PHONE: (800) 757-6686 / www.ctscorp.com

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