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# KFF6050A

1030 MHz TCAS BPF

Rev 1 – Origin Date: July 11, 2005 – Revision Date: August 24, 2005

## Features

- High Rejection
- Low Loss
- Symmetrical Attenuation

## Description

Rugged mount, silver (Ag) coated ceramic filter. Developed for use in TCAS applications.

Weight: 20.4 grams typical

Material: Filter is composed of a ceramic block plated with Ag and a bracket made of 60-40 tin lead plated cold roll steel.



## Electrical Specifications

| Parameter               | Frequency (MHz) | Typical @ 25°C | Spec. @ 25°C |
|-------------------------|-----------------|----------------|--------------|
| Passband Insertion Loss | 1025-1035       | 2.0 dB         | 2.5 dB max   |
| Passband Return Loss    | 1025-1035       | 15.0 dB        | 10.0 dB min  |
| Attenuation             | 1000            | 25.0 dB        | 18.0 dB min  |
|                         | 1100            | 45.0 dB        | 35.0 dB min  |

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 |

\*This product is covered by one or more of the following U.S. and foreign patents including: US 4,692,726;US 4,742,562; US 4,800,348;US 4,829,274;US 5,146,193;EP 0573597;DE 0573597;FR 0573597;JP 508149/92;KR 142171;US 5,162,760;US 5,218,329;US 5,250,916;US 5,327,109;US 5,488,335;CA 2114029;FR 9306297;GB 2273393;JP 3205337;KR 115113;CN 93106228.4;US 5,512,866;EP 0706719;DE 0706719;FR 0706719;GB 0706719;CN 95190359.4;US 5,602,518;US 5,721,520;US 5,745,018;EP 0910875;DE 0910875;DK 0910875;FR 0910875;GB 0910875;E 0910875;JP 505182/98;KR 10-323013;US 5,994,978;US 6,462,629;CN 00810420.4;US 6,559,735;US 6,650,202;US 6,834,429. Other US and foreign patents pending.

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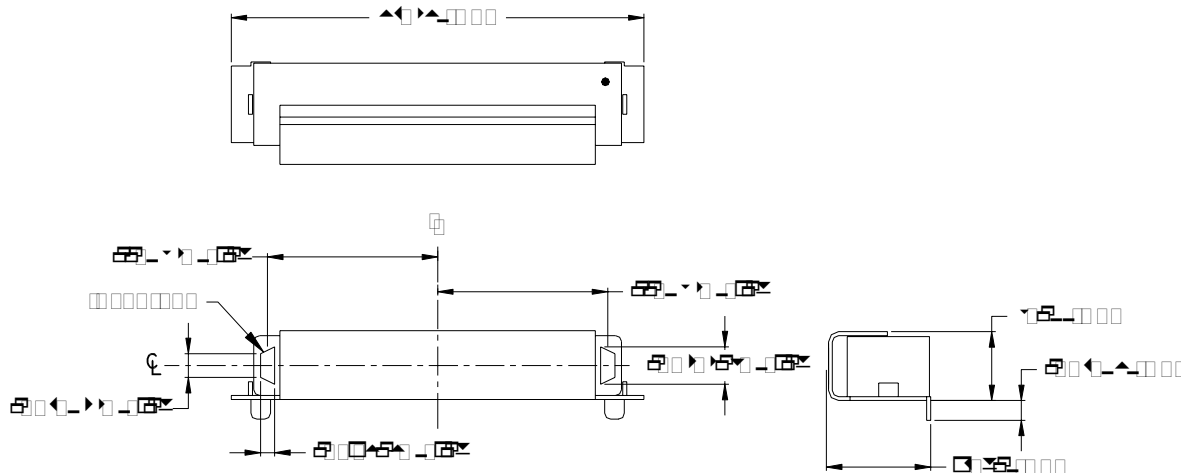


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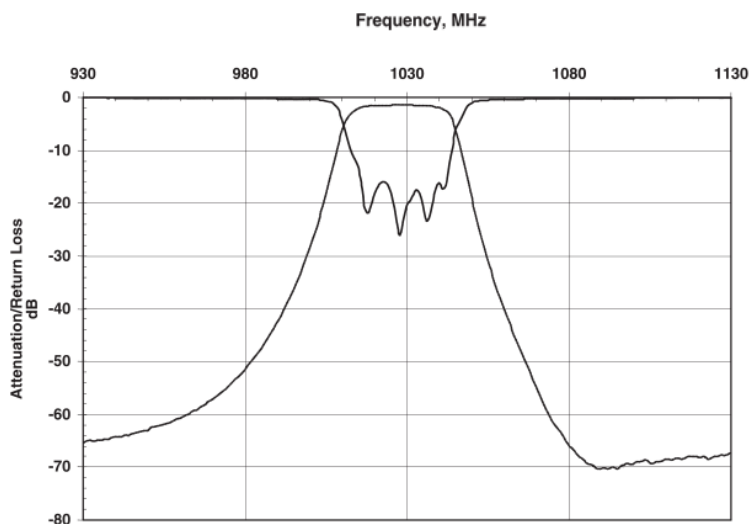
1030 MHz TCAS BPF

## Mechanical Drawing

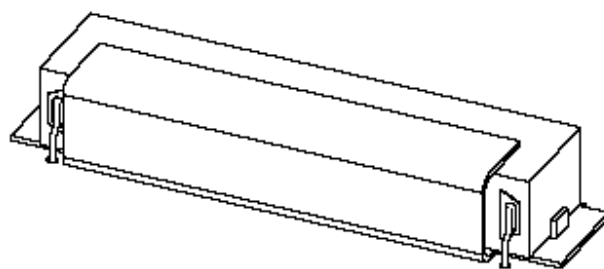
Rev 1 – Origin Date: July 11, 2005 – Revision Date: August 24, 2005



## Electrical response

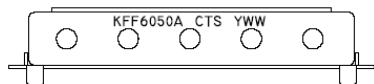


## PCB Layout

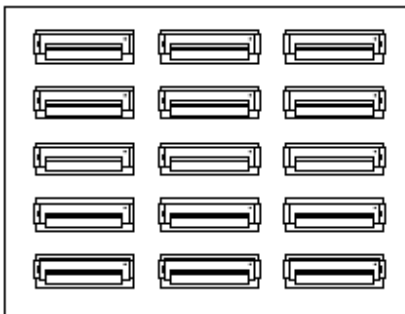


MOUNTING VARIES BY INDIVIDUAL CUSTOMER.

## Packaging and Marking



This product is shipped in pre-formed foam trays.



7 15 Slot Foam Trays  
(100 max per box)