

## Features

- Low Loss
- Low Ripple
- High Crossover Rejection

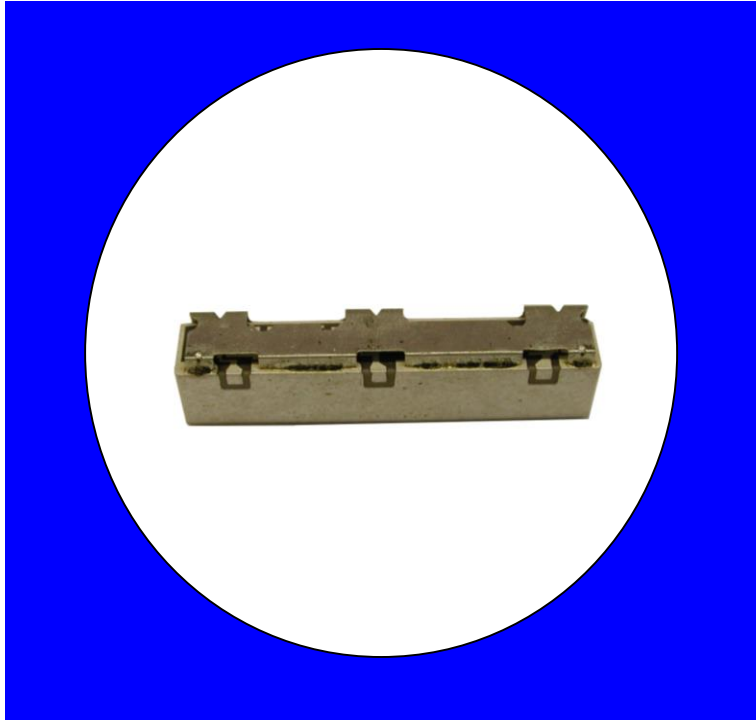
## Description

Surface mount, silver (Ag) coated ceramic Duplexer.

Weight: 3.3 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.



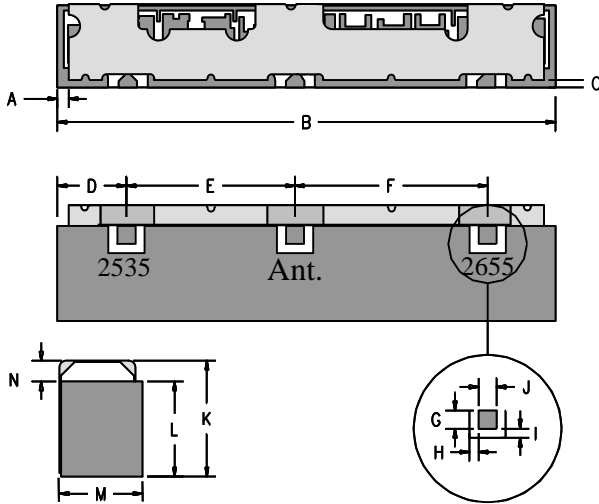
## Electrical Specifications

| Parameter                   | Frequency (MHz) | Typical @ 25°C | Spec. @ 25°C | Spec. Over -40°C to +85°C |
|-----------------------------|-----------------|----------------|--------------|---------------------------|
| <b>Low Band Response</b>    |                 |                |              |                           |
| Passband loss               | 2500-2570       | 2.0 dB         | 2.4 dB max   | 2.6 dB max                |
| Passband loss (20 MHz avg)  | 2500-2570       | 1.7 dB         | 2.0 dB max   | 2.2 dB max                |
| Passband Ripple             | 2500-2570       | 1.1 dB         | 1.3 dB max   | 1.5 dB max                |
| Passband Return Loss        | 2500-2570       | 14 dB          | 12.0 dB min  | 12.0 dB min               |
| Attenuation                 | 2620-2690       | 47.0 dB        | 45.0 dB min  | 48.0 dB min               |
| <b>High Band Response</b>   |                 |                |              |                           |
| Passband loss               | 2620-2690       | 2.0 dB         | 2.4 dB max   | 2.6 dB max                |
| Passband loss (20 MHz avg)  | 2620-2690       | 1.7 dB         | 2.0 dB max   | 2.2 dB max                |
| Passband Ripple             | 2620-2690       | 1.1 dB         | 1.3 dB max   | 1.5 dB max                |
| Passband Return Loss        | 2620-2690       | 14 dB          | 12.0 dB min  | 12.0 dB min               |
| Attenuation                 | 2500-2570       | 51 dB          | 50 dB min    | 48.0 dB min               |
| <b>Isolation</b>            |                 |                |              |                           |
| Rejection @ Low Band        | 2500-2570       | 52 dB          | 50 dB min    | 50 dB min                 |
| Rejection @ High Band       | 2620-2690       | 51 dB          | 50dB min     | 50 dB min                 |
| Average power into any port |                 |                |              | 3 Watts max               |
| Peak power into any port    |                 |                |              | 30 Watts 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

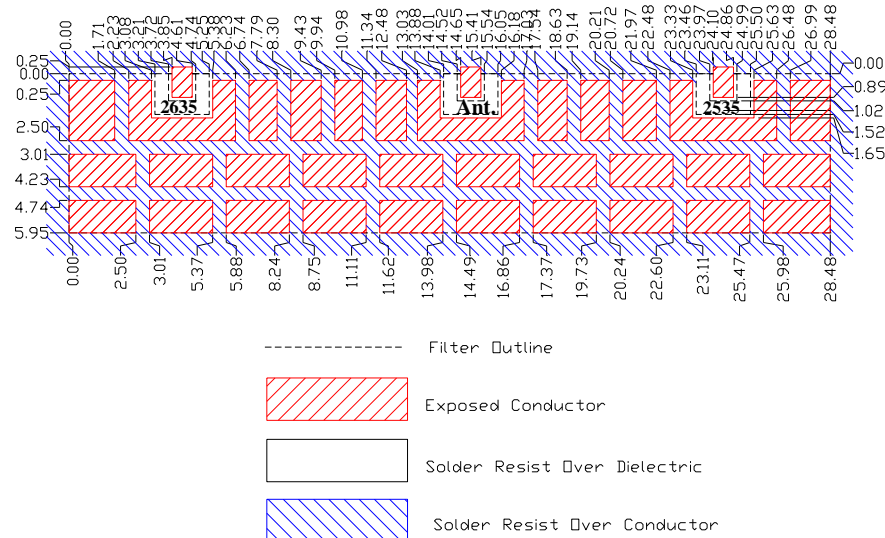
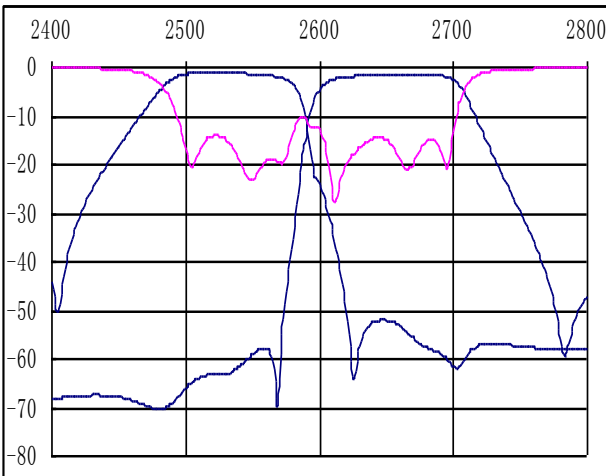


| Dim | Nominal (mm) | Tolerance (mm)<br>+/- or max |
|-----|--------------|------------------------------|
| A   | 0.64         | 0.25                         |
| B   | 28.48        | max                          |
| *C  | 0.33         | min                          |
| D   | 3.90         | 0.3                          |
| E   | 9.45         | 0.13                         |
| F   | 10.80        | 0.13                         |
| G   | 1.02         | 0.13                         |
| H   | 0.51         | 0.13                         |
| I   | 0.51         | 0.13                         |
| J   | 1.02         | 0.13                         |
| K   | 5.00         | max                          |
| L   | 4.10         | max                          |
| M   | 4.90         | max                          |
| N   | 1.07         | 0.13                         |

\*Indicates Reference Only

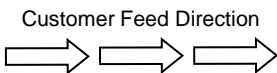
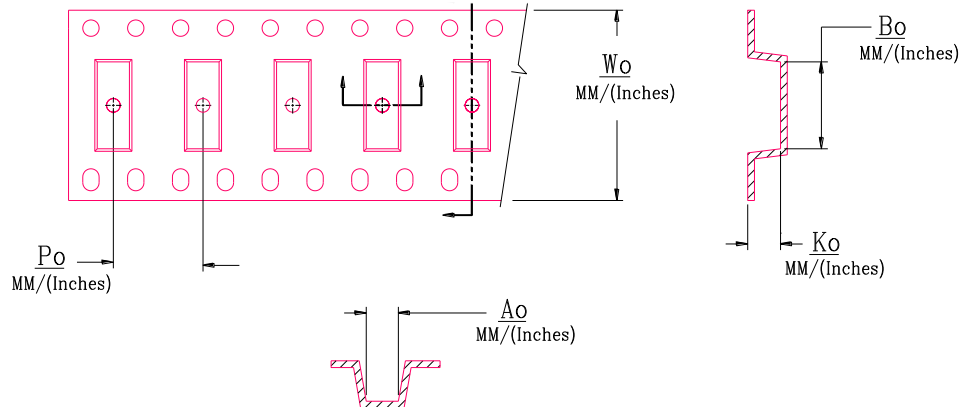
## Electrical response

## PCB Layout



## Packaging and Marking

| DIMENSION     | UNITS | SPECIFICATION |
|---------------|-------|---------------|
| REEL DIAMETER | mm    | 330           |
| REEL WEIGHT   | kg    | 2.5           |
| REEL QUANTITY | ea.   | 500           |



CTS  
49C  
YWW

| MODEL NO. | Wo           | Ao           | Bo            | Ko           | Po           |
|-----------|--------------|--------------|---------------|--------------|--------------|
| CER0849B  | 44.0/(1.732) | 7.29/(0.287) | 28.70/(1.130) | 5.18/(0.204) | 12.0/(0.472) |