

# Feedthrough EMI Filters

## Specials, Custom Assemblies and Planar Capabilities

### CATALOGUE FILTER RANGES

#### Range

The Syfer range of EMI filters is extensive, covering threaded and solder-in panel mounting versions, and an ever-expanding range of surface mount types.

#### Benefits

At the heart of every Syfer filter is a multilayer ceramic element, manufactured using our unique 'Wet Process'. Dielectric materials used include the ultra stable C0G and stable X7R types - Z5U/Y5V is not used. This ensures excellent insertion loss performance is provided up to full rated voltage and to the extremes of rated temperature. Capacitance values up to 2.2 $\mu$ F are offered, with working voltages up to 3kVdc.



### SPECIAL FILTERS / CUSTOM MULTIWAY ASSEMBLIES

#### Special EMI Filters

Syfer's design and manufacturing capabilities are well suited to providing special products. We are always pleased to consider modifications to standard devices, or fully custom products. Special filters can be offered to suit specific applications - meeting a wide range of mechanical and electrical requirements.

#### Multiway Filter Assemblies

Multiway assemblies can be offered using any of the filters in the Syfer range, either solder-in or screw-in. Our planar capacitor arrays can also be utilised, which allows closer pin pitching. Specially manufactured chassis or plates can be provided, or alternatively filters can be assembled to customers free-issue plates. We would be pleased to discuss specific applications and propose designs.

- Flexible design - plates to suit the application
- Faster assembly for the customer - reduced risk of damage to the filters through soldering
- Reliability - 100% tested
- Filtering options - wide range of values
- Ground lines and unfiltered lines
- Planar arrays can be supplied with compliant spring clips for solderless assembly



- Lead lengths to suit
- Modified bodies
- Fully custom - either to customer drawings, or designed by Syfer

[Example - Battery terminal filter]



- Higher test voltages than standard
- d.c. or a.c.
- alternative capacitance values or tolerances

[Example - high voltage filter]



[Examples - multiway filter assemblies]



### notes

Please contact our Sales Office to discuss any interest in any of the above. We would be pleased to provide a technical and commercial proposal.