

# Microwavefilters® &

Microwave components for telecommunication systems



## Wideband Cavity Filters

**Passband 3.5 ÷ 7.0 GHz**  
**Rejection >50 dB at 3 GHz**

**Microwavefilters & TVC srl**

Via G. Cavalcanti, 10 - 20063 Cernusco s/N (MI) - ITALY  
Tel. +39-02-92162703 Fax. +39-02-92162705

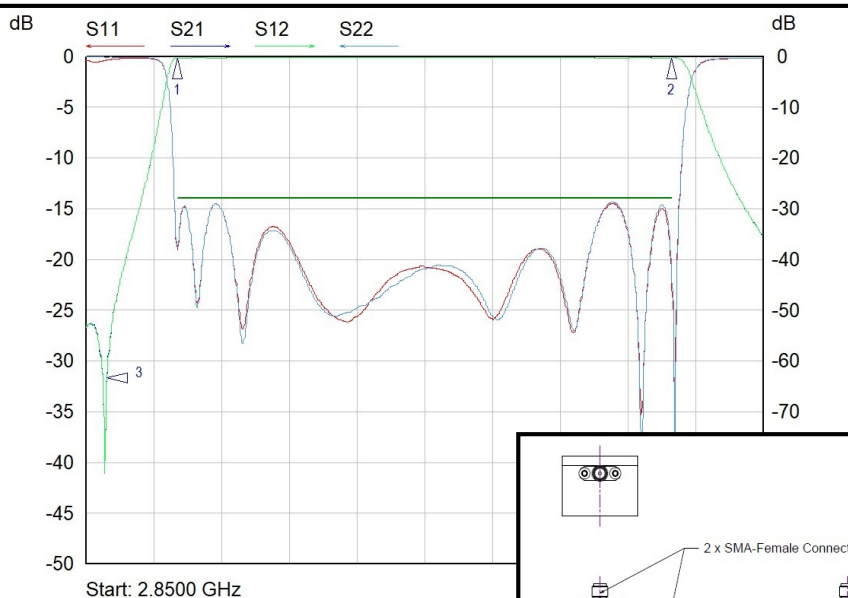
[info@mw-tvc.com](mailto:info@mw-tvc.com) [www.mw-tvc.com](http://www.mw-tvc.com)

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MW&TVC presents a new wideband cavity filter with 3.5 GHz of passband, from 3.5 GHz to 7 GHz (most of the C-Band). It is compact (128x30x24 mm), with low insertion loss (IL  $\leq$  0.3 dB) and high rejection ( $>$  50 dB at 3.0 GHz). It can handle 200 W CW.

### Wideband Filter Characteristics P/N MW-F05250-CCT

Passband	<b>3.5 ÷ 7.0 GHz (C-Band)</b>
Return Loss	<b><math>\geq</math> 14 dB</b>
VSWR	<b>1.5 : 1 max.</b>
Insertion Loss in the passband	<b><math>\leq</math> 0.3 dB</b>
Rejection btw 1.0 ÷ 3.0 GHz	<b><math>\geq</math> 50 dB</b>
Power Handling	<b>200 W CW</b>
Dimensions	<b>128 x 30 x 24 mm (without connectors &amp; tuning screws)</b>
Connectors	<b>2 x SMA-Female</b>
Material	<b>Aluminum</b>
Weight	<b>around 250 grams</b>



Mkr	Trace	X-Axis	Value
1 ▽	S21	3.5000 GHz	-0.28 dB
2 ▽	S21	7.0000 GHz	-0.27 dB
3 ▽	S21	3.0000 GHz	-63.28 dB

