

# SUPARCO BUSINESS SOLUTIONS

## C Band Dual Mode Self-Equalized Channel Filter

### Technical Specifications



Center Frequency: 3880 MHz



Bandwidth: 36 MHz



Insertion Loss: 1 dB Max



Passband loss variations: >  
0.4 dB at  $f_c \pm 12$  MHz > 0.6 dB  
 $f_c \pm 16$  MHz > 1.1 dB  $f_c \pm 18$  MHz



Interface 50Ω SMA



Temperature -50 ~ 60 °C



Out of Band Rejection:  
< 14 dB at  $f_c \pm 22$  MHz  
< 22 dB at  $f_c \pm 25$  MHz  
< 48 dB at  $f_c \pm 50$  MHz



Group Delay Variations:  
> 5 ns at  $f_c \pm 12$  MHz  
> 20 ns at  $f_c \pm 16$  MHz  
> 42 ns at  $f_c \pm 18$  MHz



### Product Description

- ★ This 10th order dual mode self-equalized channel filter (10-4-4) realizes 8 transmission zeros, 4 for out-of-band rejection and 4 for group delay equalization.
- ★ It can be used to construct an Input Multiplexer (IMUX) with very stringent requirements.
- ★ Material of cavity is INVAR having very small thermal coefficient of expansion, that ensures the stable performance over wide temperature ranges.
- ★ Frequency and bandwidth can be customized.
- ★ Designed according to space industry standards.

For more  
information



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