

# Interdigital Filter

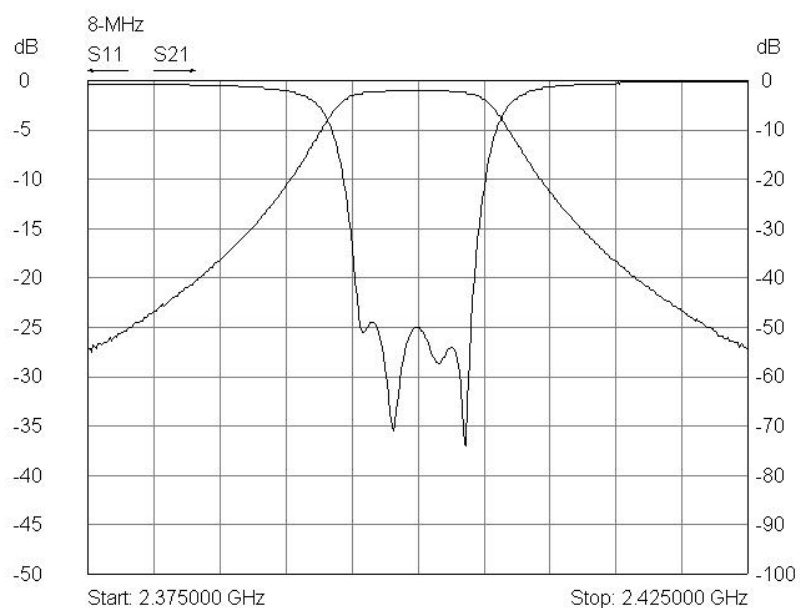
## 1.7 - 2.9 GHz



### Main Electrical & Mechanical Characteristics

Frequency Range	1.7 ÷ 2.1 GHz option 1)
	1.9 ÷ 2.3 GHz option 2)
	2.3 ÷ 2.9 GHz option 3)
Bandwidth	24 MHz
Number of Resonators	5
Insertion Loss	< 2.0 dB
Return Loss	> 15 dB
Dimensions	112 x 30 x 18 mm
Connectors	SMA-Female

### Measured Frequency Response



# Widely Adjustable Filter

## 1.3 - 2.7 GHz

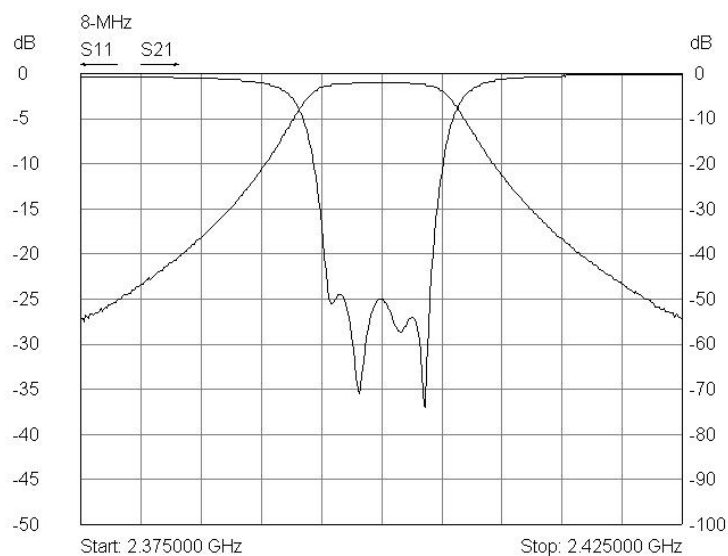


### Main Electrical & Mechanical Characteristics

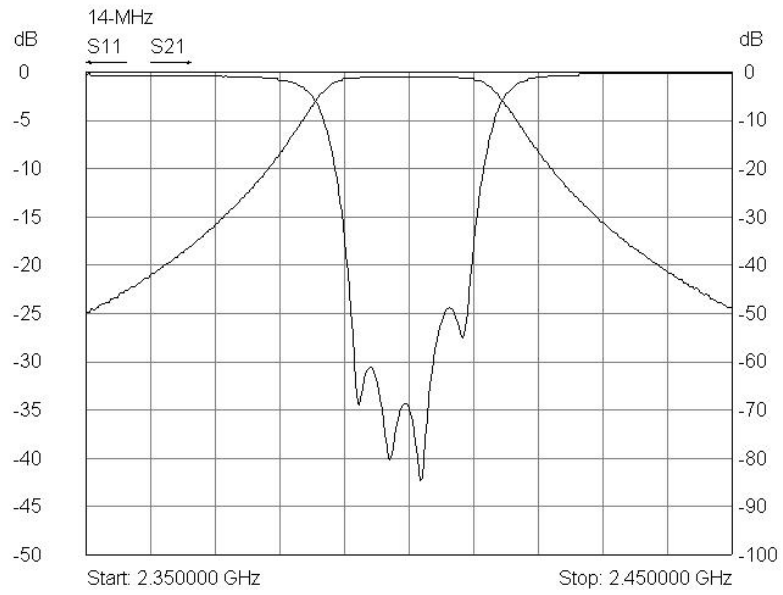
Frequency Range	1.3 ÷ 2.7 GHz
Bandwidths	8 ÷ 14 MHz (narrow version)
	14 ÷ 25 MHz (wide version)
Attenuation	> 35 dB @ ± 16/28/50 MHz
Insertion Loss	< 2.0 dB (narrow version)
Return Loss	> 15 dB
Dimensions	108 x 50 x 25 mm
Connectors	SMA-Female or N-Female

### Measured Frequency Response

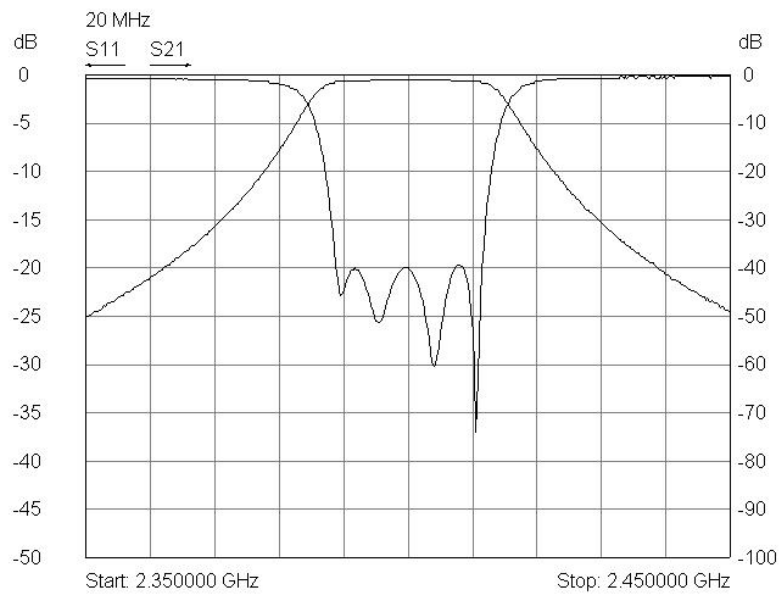
8 MHz Bandwidth



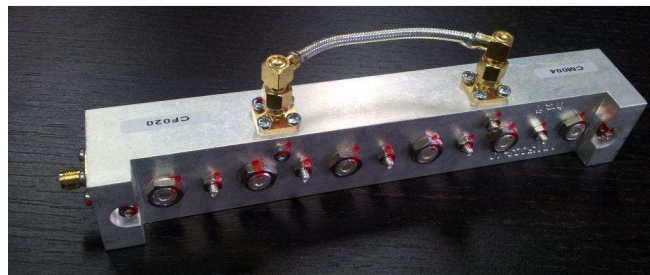
### 14 MHz Bandwidth



### 20 MHz Bandwidth



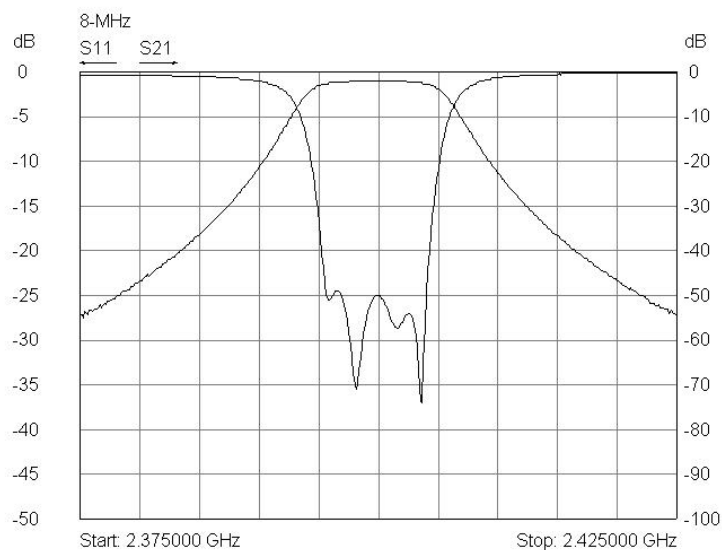
# 1.36 GHz Bandpass Filter with Transmission Zeros



## Main Electrical & Mechanical Characteristics

Center frequency $f_0$	1.36 GHz
Bandwidth	20 MHz
Attenuation	> 50 dB @ 1378 GHz
Insertion Loss @ $f_0$	< 1.5 dB
Return Loss	> 15 dB
Dimensions	180 x 45 x 30 mm
Connectors	SMA-Female

## Measured Frequency Response



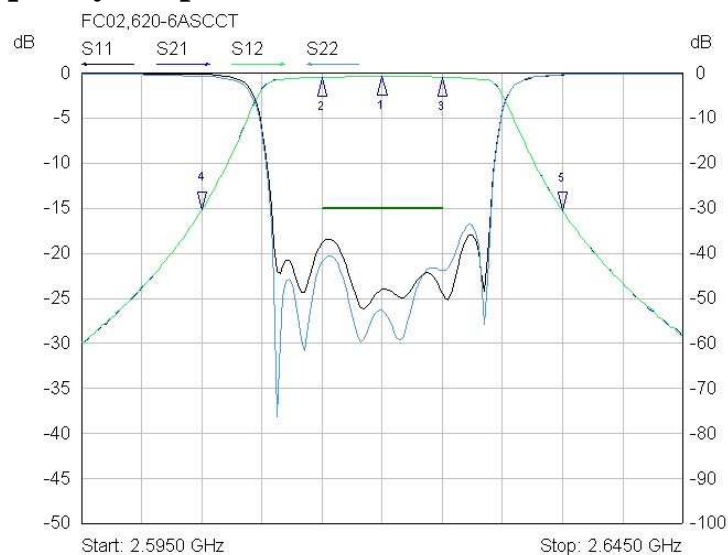
# Low-Loss Bandpass Filter Tunable from 2.4 to 2.7 GHz



## Main Electrical & Mechanical Characteristics

Frequency Range	2.4 ÷ 2.7 GHz
Net Bandwidth	10 MHz
Attenuation	> 30 dB @ ± 15 MHz from f0
Insertion Loss	< 1.0 dB
Return Loss	> 15 dB
Dimensions	195 x 130 x 38 mm
Connectors	SMA-Female or N-Female

## Measured Frequency Response



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S21	2.6200 GHz	-0.86 dB	
2 ▽	S21	2.6150 GHz	-0.99 dB	
3 ▽	S21	2.6250 GHz	-0.94 dB	
4 ▽	S21	2.6050 GHz	-30.35 dB	
5 ▽	S21	2.6350 GHz	-30.56 dB	

# High-Selectivity & Wideband Filter

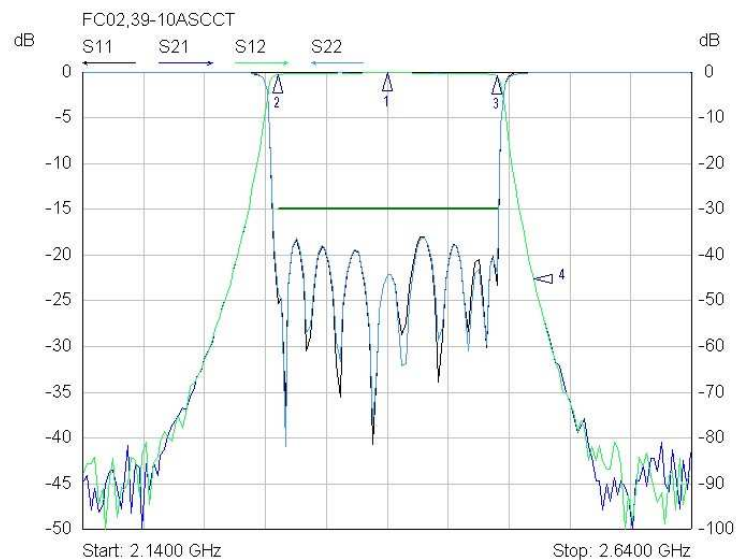
## 2.30 - 2.48 GHz



### Main Electrical & Mechanical Characteristics

Central Frequency $f_0$	2.39 GHz
Bandwidth	180 MHz
Attenuation	> 40 dB @ 2.51 GHz
Insertion Loss	< 1.0 dB
Return Loss	> 15 dB
Dimensions	160 x 68 x 27 mm
Connectors	SMA-Female or N-Female

### Measured Frequency Response



Mkr	Trace	X-Axis	Value	Notes
1	S21	2.3900 GHz	-0.24 dB	
2	S21	2.3000 GHz	-0.49 dB	
3	S21	2.4800 GHz	-0.63 dB	
4	S21	2.5100 GHz	-45.21 dB	