

Microwavefilters® & ®

Diplexer 26 GHz

In Metal Insert

Technology

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This new family of **26 GHz Metal Insert Diplexer** covers the **1008 MHz** shifter. Low filter's attenuation in the high filter's bandwidth is more than **55 dB** (and vice versa). These diplexers are also quite **compact**, considering that they have 9 resonators per filter in a 200mm-long housing.

Shifter 1008 MHz Characteristics

Product Code MW-NS527-906/61 ext. 001

Low Filter Bandwidth
High Filter Bandwidth

24.516 – 25.056 GHz
25.524 – 26.064 GHz

Product Code MW-NS527-906/61 ext. 002

Low Filter Bandwidth
High Filter Bandwidth

24.938 – 25.478 GHz
25.946 – 26.486 GHz

Electrical Characteristics (common to both codes)

Return Loss (both filters)

> 17 dB

Insertion Loss (both filters)

< 1.5 dB

Attenuation (Low vs High and vice versa)

> 55 dB

Temperature Range

-40 ÷ +85 °C

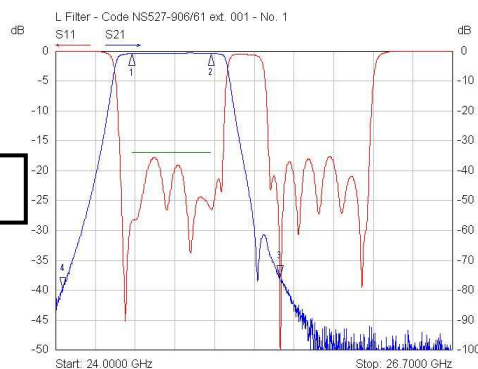
Dimensions

200 x 22.4 x 18 mm

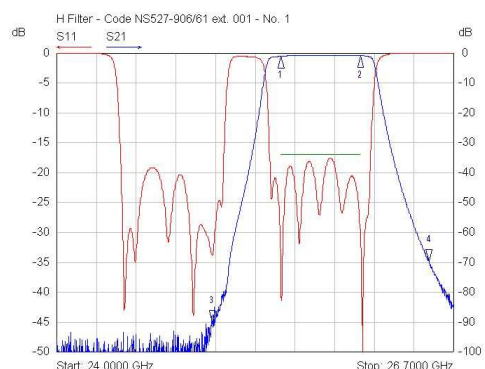
Connectors (on all Ports)

WR42 (R220) Flanges

Ext. 001

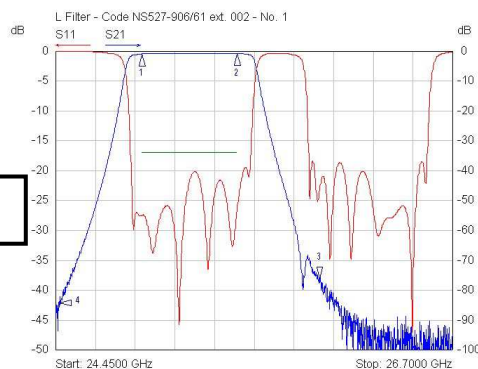


Mkr	Trace	X-Axis	Value	Notes
1	S21	24.5160 GHz	-0.83 dB	
2	S21	25.0560 GHz	-0.70 dB	
3	S21	25.5240 GHz	-75.82 dB	
4	S21	24.0480 GHz	-79.92 dB	

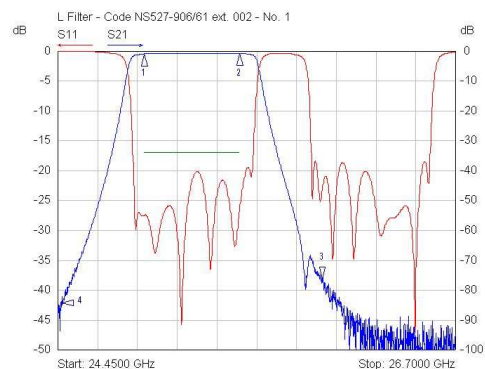


Mkr	Trace	X-Axis	Value	Notes
1	S21	25.5240 GHz	-0.97 dB	
2	S21	26.0640 GHz	-0.80 dB	
3	S21	25.0560 GHz	-90.07 dB	
4	S21	26.5320 GHz	-69.73 dB	

Ext. 002



Mkr	Trace	X-Axis	Value	Notes
1	S21	24.9380 GHz	-0.93 dB	
2	S21	25.4780 GHz	-0.76 dB	
3	S21	25.9460 GHz	-76.18 dB	
4	S21	24.4700 GHz	-84.16 dB	



Mkr	Trace	X-Axis	Value	Notes
1	S21	24.9380 GHz	-0.93 dB	
2	S21	25.4780 GHz	-0.76 dB	
3	S21	25.9460 GHz	-76.18 dB	
4	S21	24.4700 GHz	-84.16 dB	