

15 GHz (Ku-Band) Diplexer



*Compact, with low loss
and high isolation*

Low Filter 14.4 - 14.83 GHz High Filter 15.15 - 15.35 GHz

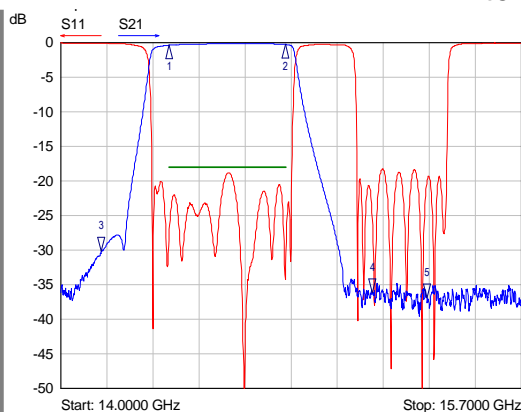
Microwavefilters & TVCsrl

Via G. Cavalcanti, 10 - 20063 Cernusco s/N (MI) - ITALY
Tel. +39-02-92162703 Fax. +39-02-92162705
info@mw-tvc.com www.mw-tvc.com

This diplexer is the latest in a family designed and optimized to offer a very sharp response (105 dB of rejection of TX over RX and vice versa) with a shift of 635 MHz. Compared with its predecessors, it is even more compact. It can be used wherever stringent requirements are needed, like in military applications.

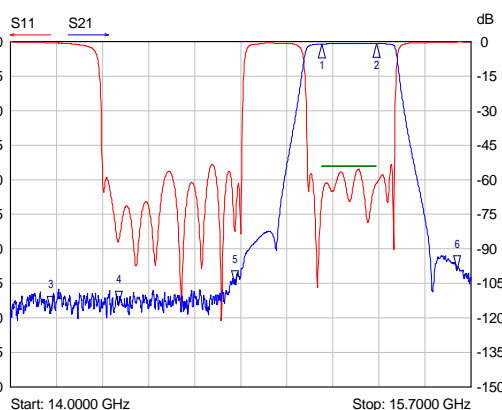
Diplexer Characteristics – P/N MW-15G-0886/01

Low Filter Bandwidth	14.4 – 14.83 GHz
High Filter Bandwidth	15.15 – 15.35 GHz
Return Loss	> 18 dB
Insertion Loss	< 1.2 dB
Low Filter Rejection	80 dB @ 14.15 GHz 105 dB from 15.15 GHz to 15.35 GHz 80 dB from 15.35 GHz to 18 GHz
High Filter Rejection	60 dB @ 14.15 GHz 105 dB from 14.4 GHz to 14.83 GHz 60 dB from 15.65 GHz to 18 GHz
Dimensions	mm 80 x 80 x 13
Connectors	SMA-Female (Antenna) SMA-Female or SMA-Male (Low & High Filters)



Mkr	Trace	X-Axis	Value	Notes
1	S21	14.4000 GHz	-1.12 dB	
2	S21	14.8300 GHz	-0.84 dB	
3	S21	14.1500 GHz	-90.60 dB	
4	S21	15.1500 GHz	-108.54 dB	
5	S21	15.3500 GHz	-110.77 dB	

Typical Measured Frequency Responses



Mkr	Trace	X-Axis	Value	Notes
1	S21	15.1500 GHz	-0.97 dB	
2	S21	15.3500 GHz	-0.72 dB	
3	S21	14.1500 GHz	-116.80 dB	
4	S21	14.4000 GHz	-114.52 dB	
5	S21	14.8300 GHz	-105.45 dB	
6	S21	15.6500 GHz	-98.92 dB	