

New E-Band focused.. 5G Diplexer



RL \geq 18 dB

Low IL (typical 0.5 dB)

No tuning, very light

Includes BSFs for improved selectivity

Microwavefilters & TVC srl

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This new E-Band diplexer has return loss ≥ 18 dB, with no tuning required. It includes two bandstop filters (or notches), one in the low filter and one in the high filter, to improve selectivity and to reduce the number of resonators and, consequently, the insertion loss, which is now typically 0.5 dB. Thanks to the improved RL & IL, this diplexer sustain a higher power output. It is painted for corrosion protection and is very light (less than 34 grams).

Main Electrical & Mechanical Characteristics

Low Filter Bandwidth **71 ÷ 76 GHz**
 High Filter Bandwidth **81 ÷ 86 GHz**

Return Loss **≥ 18 dB**

Insertion Loss **≤ 0.7 dB (0.5 dB typ.)**

TX/RX Isolation **≥ 60 dB**

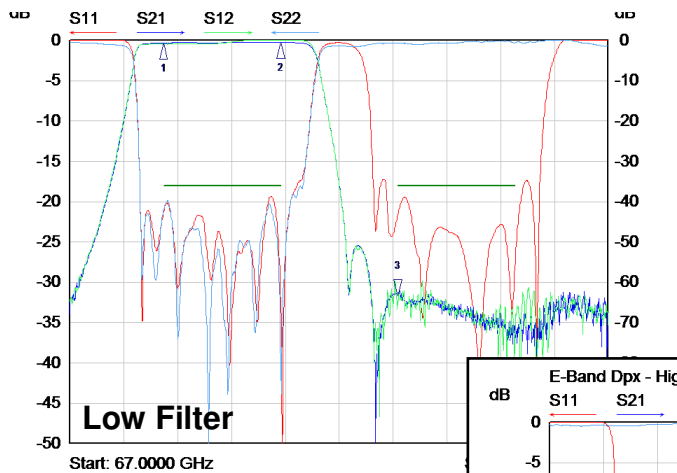
Temperature Range **-40 ÷ +85 °C**

Dimensions **89 x 20 x 19 mm**

Connectors (on all Ports) **Flanges WG26 R740 WR12**

Weight **34 grams**

Finishing **Silverplating + Powder Coating Protection .**



Mkr	Trace	X-Axis	Value
1	S21	71.0000 GHz	-0.53 dB
2	S21	76.0000 GHz	-0.48 dB
3	S21	81.0000 GHz	-63.31 dB

