

FD1002

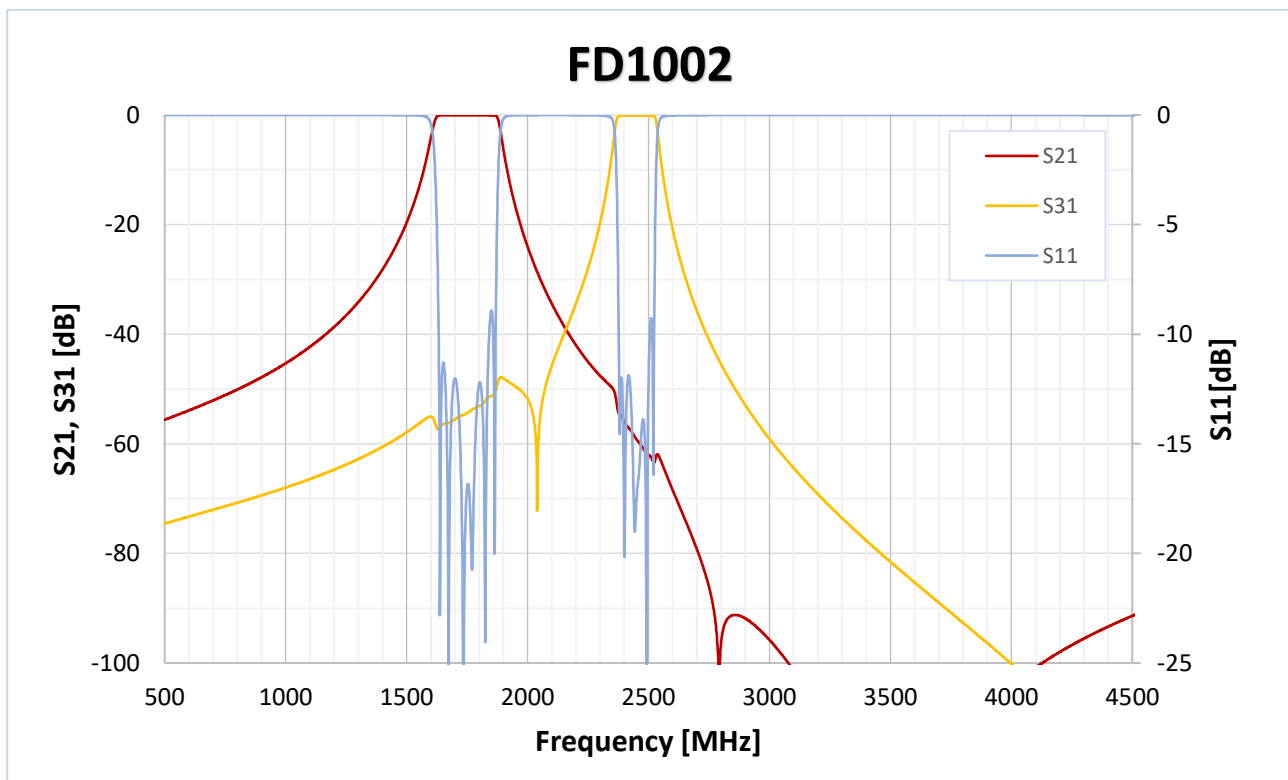
L/S-BAND DIPLEXER



DESCRIPTION

FD1002 is a Bandpass Diplexer that is designed to address challenging needs of L/S Band communication requirements. The unit boasts two low-loss cavity channels which are diplexed with a band gap of 100MHz. Each channel bandwidth is 90 MHz.

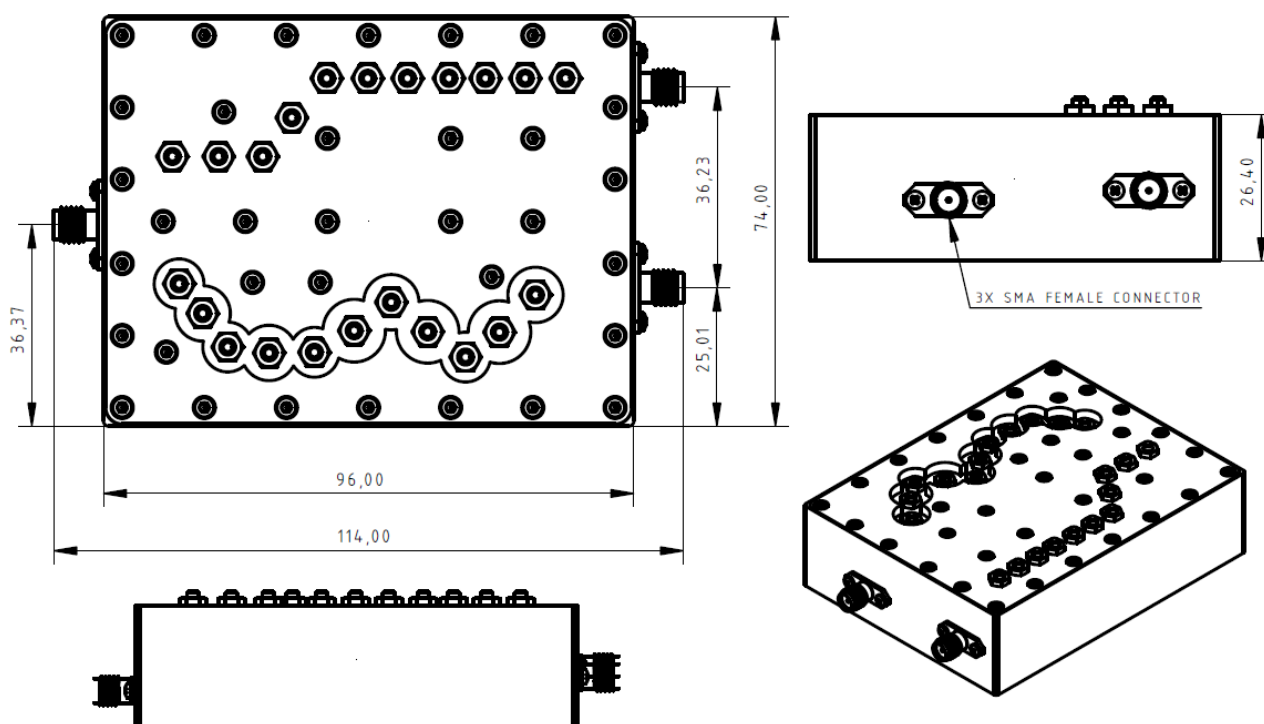
FD1002 is equipped with a Type SMA connector at common port and two SMA(F) connectors on the diplexed RX and TX channels. The unit can handle RF power up to 20W CW with 1.0dB max insertion loss on either channel.



SPECIFICATIONS

Parameter	Limits	
	Low Path	High Path
Center Frequency	1750 MHz	2450 MHz
Bandwidth	1650 – 1850 MHz	2400 – 2500 MHz
Insertion Loss	1.0 dB max	1.0 dB max
VSWR	1.3:1 max	1:3.1 max
Attenuation	80 dB min. @ 1000 MHz	80 dB min. @ 1000 MHz
	70 dB min @ 2400-2500 MHz	70 dB min. @ 1650-1850 MHz
	80 dB min @ 3300 MHz	80 dB min. @ 1650-1850 MHz
Isolation Between Bands	80 dB min. @ 2400-2500	80 dB min. @ 1650-1850 MHz
Power Handling	20 Watt CW max.	
IN/OUT Impedance	50 Ohm	
Operational Temp. Range	-45° - +85°C	
Connector	SMA (Female) – All Ports	
Finish	Black Painting	
Mechanical Dimensions	96 mm x 74 mm x 45 mm	

MECHANICAL



Designed and Manufactured in TÜRKİYE

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IMPORTANT

- Specifications subject to change without further notice.
- Data given in this document provides its typical performance. Actual device performance is guaranteed by specifications called out by “customer-specific” part number and the associated acceptance test procedure.
- This product has been developed with the support the program of The Scientific and Technological Research Council of Turkey (TÜBİTAK) (Project No: 3205062) but all the responsibility concerning the product/service belongs to ASARTECH ARGE TASARIM MÜHENDİSLİK A.Ş.¹

¹ Bu ürün TÜBİTAK-TEYDEB Destek Programından yararlanarak geliştirilmiştir. (Proje No: 3205062). Ancak ürün/hizmet ile ilgili tüm sorumluluk ASARTECH ARGE TASARIM MÜHENDİSLİK A.Ş.’ye aittir.