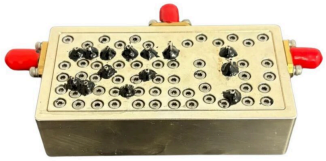
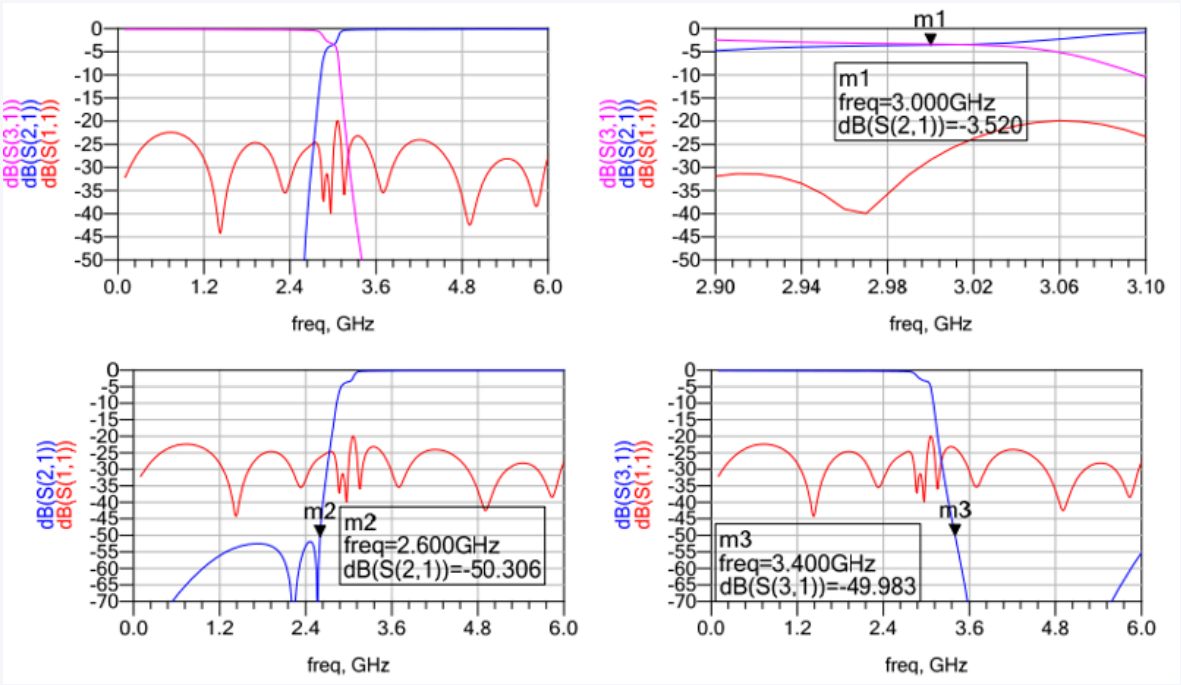
# **FD1004** FD1004 WIDEBAND DIPLEXER



## GENERAL DESCRIPTION

FD1004 is a Highpass-Lowpass Diplexer that is designed to address challenging needs of Wideband Band communication and EW requirements in DC to 6GHz.
The unit boasts two low-loss channels which are diplexed with a crossover frequency of 3000 MHz.
FD1004 is equipped with 3 SMA(F) connectors on the input and two diplexed TX channels. The unit can handle RF power up to 80W CW with 0.5 dB max insertion loss on either channel.

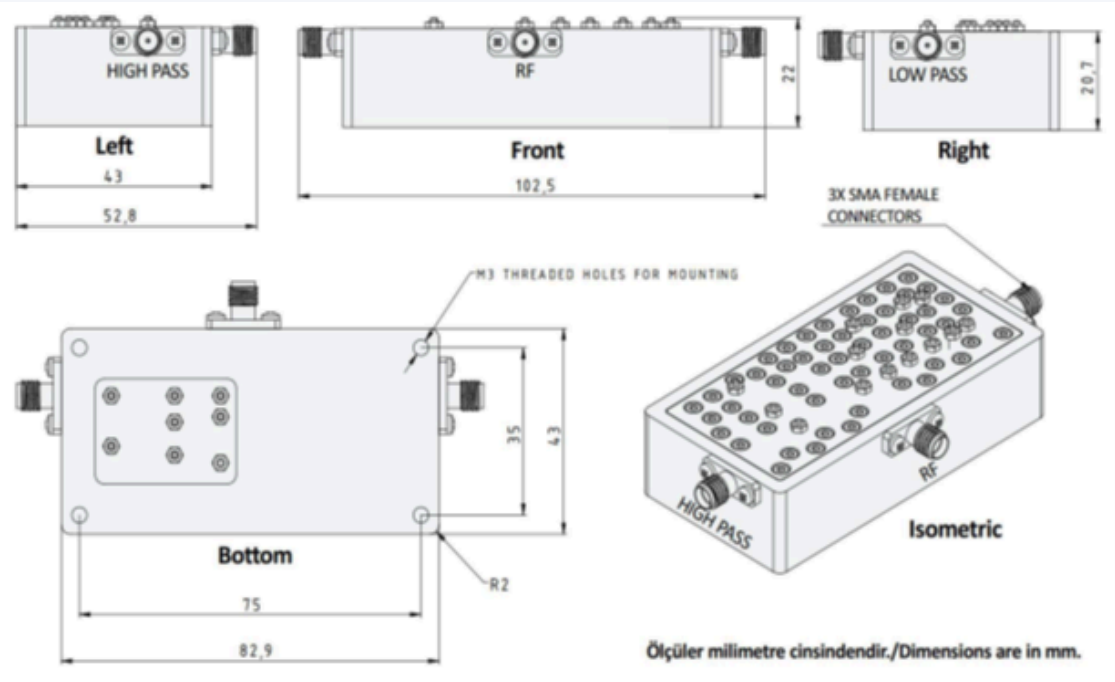
## PERFORMANCE CHART



## SPECIFICATIONS

| PARAMETER | LIMITS | |
|---|---|---|
| | LPF CHANNEL | HPF CHANNEL |
| **Frequency Range** | DC-3000 MHz | 3000-6000 MHz |
| **Insertion Loss** | 4.5 dB min.@ 2.6-3 GHz | 4.5 dB min. @ 3-3.5GHz |
| | 1 dB min. @ DC-2.6 GHz | 1 dB min. @ 3.5-6 MHz |
| **Return Loss** | 14 dB max. | 14 dB max. |
| **Rejection** | 50 dB min. @ 3600-6000 MHz | 50 dB min. @ DC-2500 MHz |
| **Isolation Between Bands** | 50 dB min. @ 3600-6000 MHz | 50 dB min. @ DC-2500 MHz |
| **Dimensions** | 83x43x22mm | |
| **Power Handling** | 80 CW Watt | |
| **IN/OUT Impedance** | 50 Ohm | |
| **Operational Temp. Range** | -40°C - +85 °C | |
| **RF Connectors** | SMA (Female) -All Ports | |

## MECHANICAL


HIGH PASS
Left
43
52,8
RF
Front
102,5
22
LOW PASS
Right
20,7
3X SMA FEMALE CONNECTORS
M3 THREADED HOLES FOR MOUNTING
Bottom
35
43
R2
75
82,9
HIGH PASS
RF
Isometric
Ölçüler milimetre cinsindendir./Dimensions are in mm.