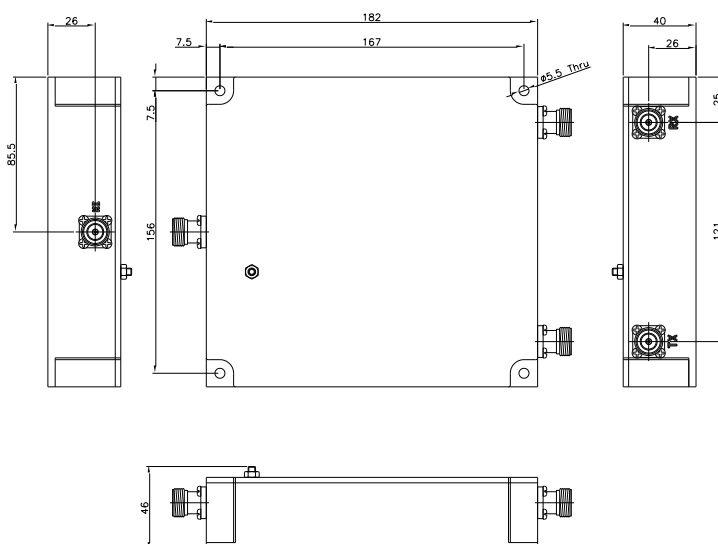


28/OCT/2019

## PRODUCT SPECIFICATION FOR INFORMATION

- Product Name : HIGH POWER DIPLEXER
- Part No : MDP-1030-1090M\_10MN-C-R1

PRELIMINARY SPECIFICATION



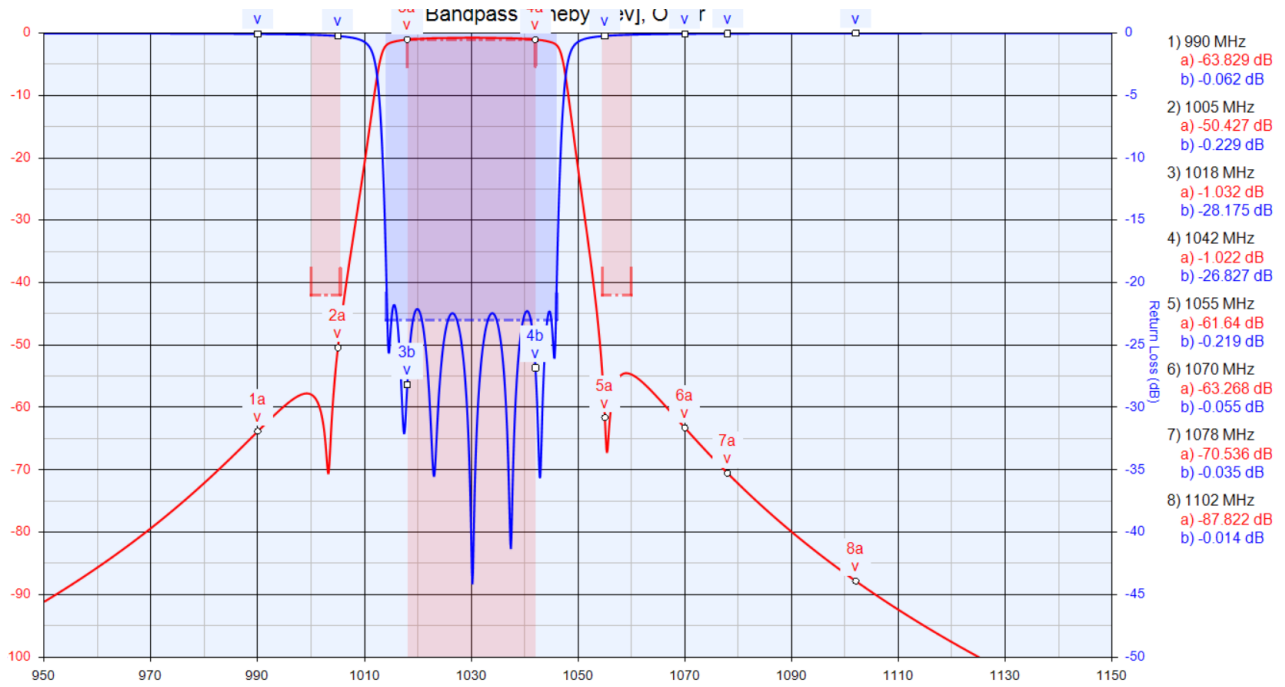
[ Mechanical 2D Drawing ]

### ■ ELECTRICAL SPECIFICATION

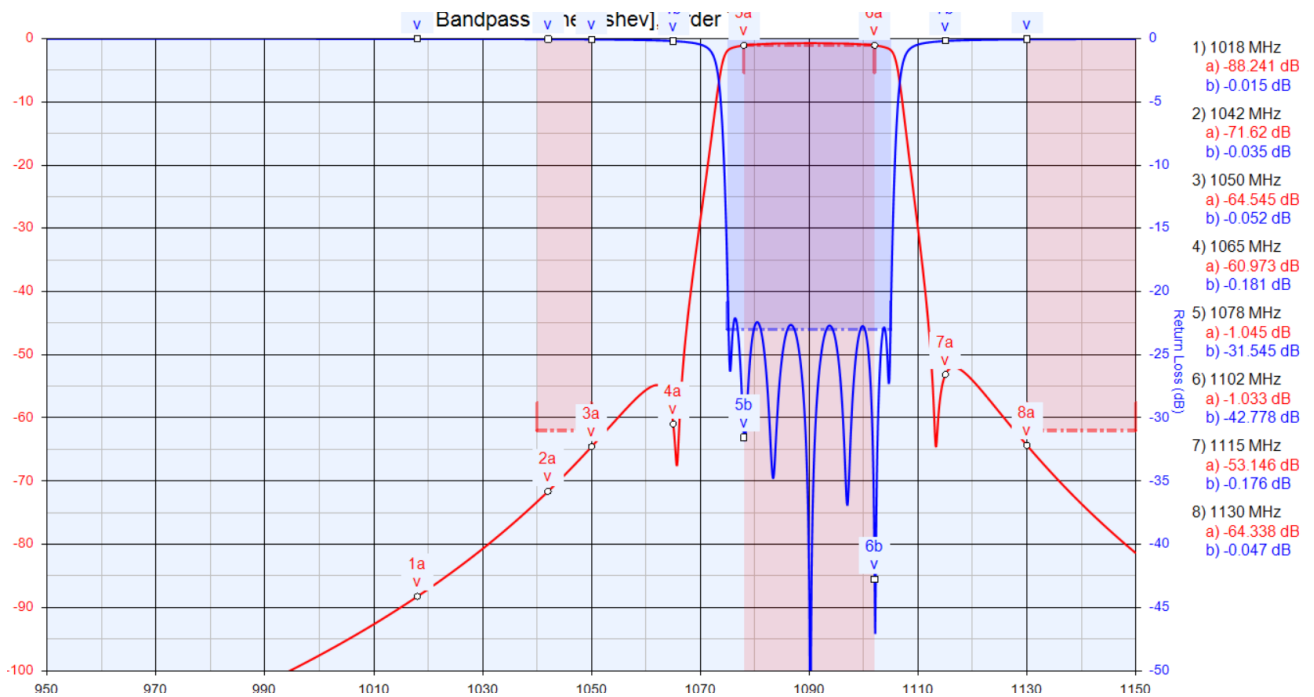
| Parameter                     | Specification                                                                               |                                                                                              | Remark |
|-------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------|
| Band                          | TX                                                                                          | RX                                                                                           |        |
| Center Frequency              | 1030MHz                                                                                     | 1090MHz                                                                                      |        |
| Band Width                    | 1018~1042 MHz                                                                               | 1078~1102 MHz                                                                                |        |
| Insertion Loss                | 1.4 dB Max.                                                                                 | 1.4 dB Max.                                                                                  |        |
| Return Loss                   | 20dB Min.                                                                                   |                                                                                              |        |
| Attenuation                   | 40.0dB 1005MHz<br>40.0dB 1055MHz<br>(±25MHz)<br>60.0dB 990MHz<br>60.0dB 1070MHz<br>(±40MHz) | 40.0dB 1065MHz<br>40.0dB 1115MHz<br>(±25MHz)<br>60.0dB 1050MHz<br>60.0dB 1130MHz<br>(±40MHz) |        |
| Isolation                     | 60dB Min.                                                                                   |                                                                                              |        |
| Average Power Handling (CW)   | 60 Watt                                                                                     |                                                                                              |        |
| Peak Power Handling over 32uS | 5000W                                                                                       |                                                                                              |        |
| In/Out Impedance              | 50Ω                                                                                         |                                                                                              |        |
| Connectors                    | N(F)                                                                                        |                                                                                              |        |
| Operating Temperature         | -40°C to +85°C                                                                              |                                                                                              |        |
| Dimension                     | 171.0 X 182.0 X 40.0 mm                                                                     |                                                                                              |        |
| Finish                        | Black epoxy coating                                                                         |                                                                                              |        |
| Weight                        | Approximately 1.7Kg                                                                         |                                                                                              |        |

## ■ SIMULATION CURVE

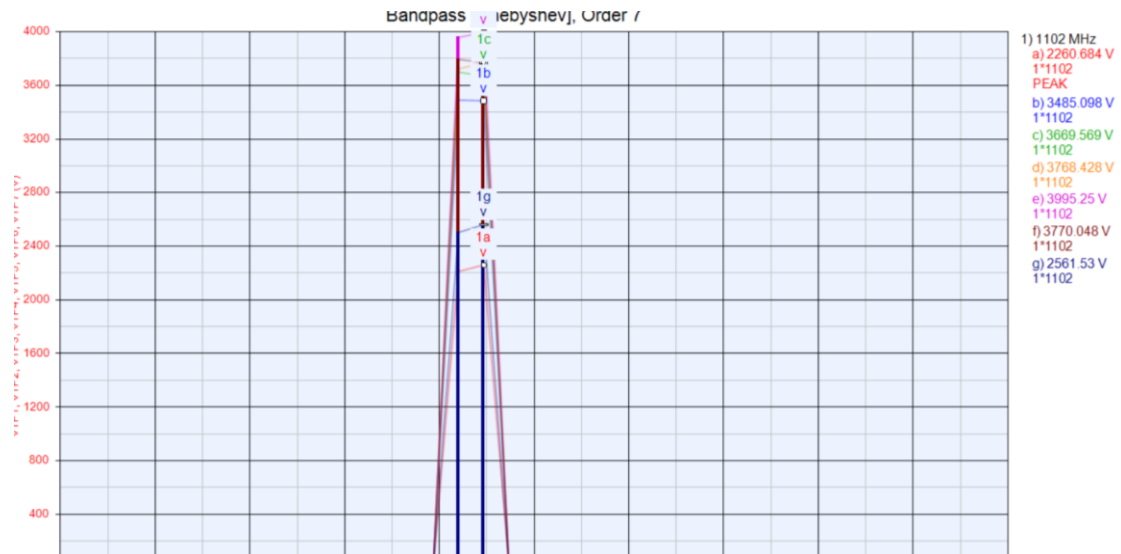
-1030Mz



-1090MHz



## 4.2 Peak Power for 5000W



### Peak Power Simulation.

1. Test Program : genesys 2009.
2. Test condition: Power Handling: 5000W Peak, 2% Duty Cycle, 32 microseconds pulse
3. Test frequency : 1078MHz , 1102MHz.
4. Input Voltage : 66.96dBm = 5KW