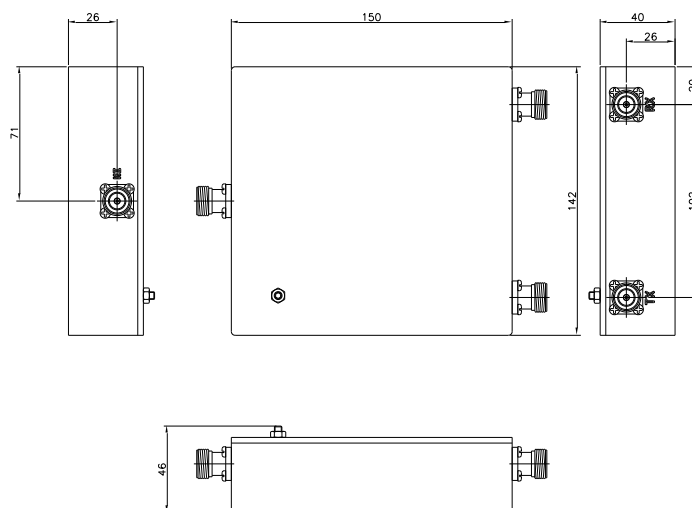


31/MAY/2019

PRODUCT SPECIFICATION FOR INFORMATION

- Product Name : HIGH POWER DIPLEXER
- Part No : MDP-1030-1090M_10MN-A-R1

PRELIMINARY SPECIFICATION



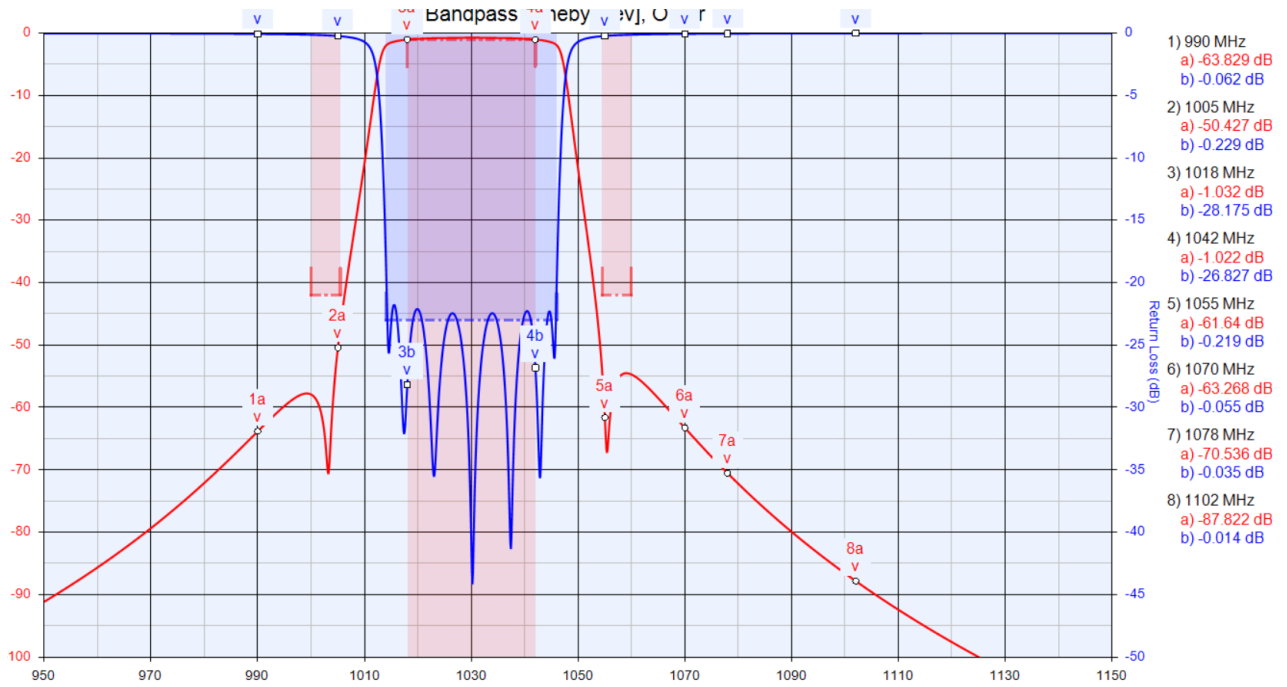
[Mechanical 2D Drawing]

■ ELECTRICAL SPECIFICATION

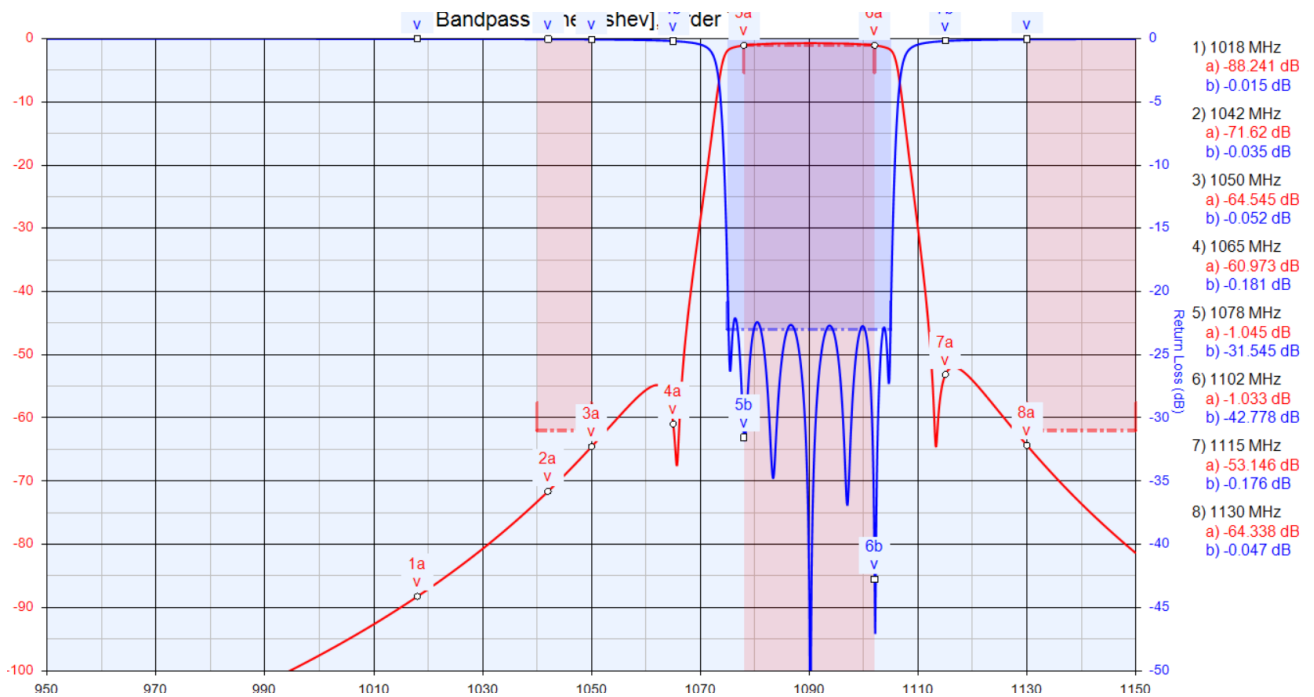
Parameter	Specification		Remark
Band	RX	TX	
Center Frequency	1030MHz	1090MHz	
Band Width	1018~1042 MHz	1078~1102 MHz	
Insertion Loss	1.4 dB Max.	1.4 dB Max.	
Return Loss	20dB Min.		
Attenuation	40.0dB 1005MHz 40.0dB 1055MHz (±25MHz) 60.0dB 990MHz 60.0dB 1070MHz (±40MHz)	40.0dB 1065MHz 40.0dB 1115MHz (±25MHz) 60.0dB 1050MHz 60.0dB 1130MHz (±40MHz)	
Isolation	60dB Min.		
Average Power Handling (CW)	60 Watt		
Peak Power Handling over 32uS	3000W		
In/Out Impedance	50Ω		
Connectors	N(F)		
Operating Temperature	-40°C to +85°C		
Dimension	142.0 X 150.0 X 40.0 mm		
Finish	Black epoxy coating		

■ SIMULATION CURVE

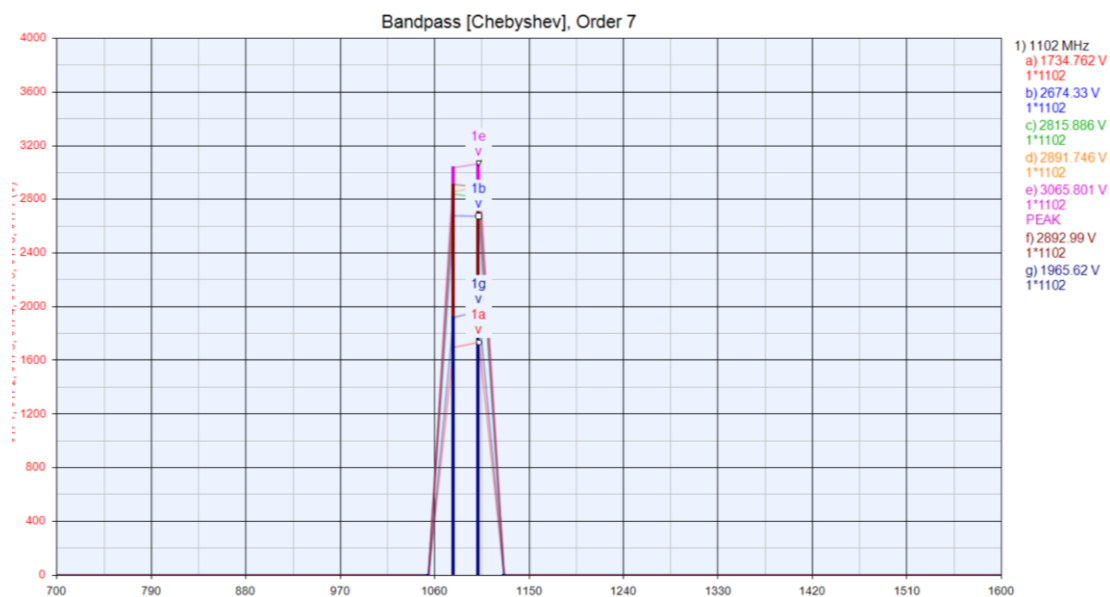
-1030Mz



-1090MHz



4.2 Peak Power for 3KW



Peak Power Simulation.

1. Test Program : genesys 2009.
2. Test condition: Power Handling: 3KW Peak, 2% Duty Cycle, 32 microseconds pulse
3. Test frequency : 1078MHz , 1102MHz.
4. Input Voltage : 64.7dBm = 3KW