



PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

Product Name: Band Pass Filter

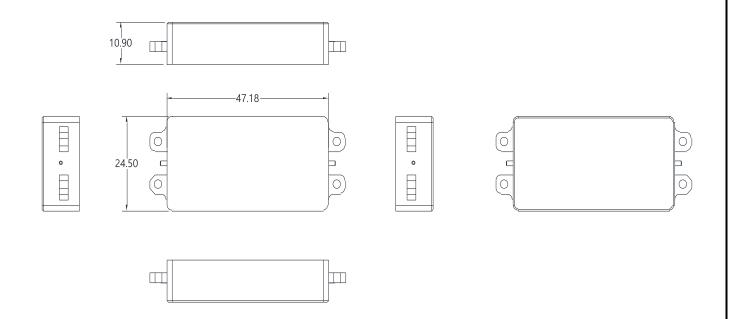
Part No : MBP-C1065_70ML-A-R0

	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2024.02.02	Jeffrey Chung	Michael Jeon





■ Mechanical Drawing



■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	1065 MHz	ОК
2. Bandwidth [BW]	Fc ±35MHz[1030~1100MHz]	ОК
3. Insertion Loss in BW	2.0dB Max.	Proposed
4. Ripple (pass band)	±0.2dB	ОК
5. Return Loss	14dBr Min.	ОК
	55dBc Min.@ 820 & 1240MHz	ОК
	65dBc Min.@ 1410MHz	Proposed
6. Rejections	70dBc Min.@ DC-650MHz	ОК
	65dBc Min.@ 1500~3000 MHz	Proposed
	50dBc Min.@ 3000~5000 MHz	Proposed
7. In/Out Impedance	50 Ohm	ОК
8. Power Handling	300Watt peak Max	ОК
9. Dimension [WxDxH]	24.5x47.18x10.9 mm	ОК
10. Weight	120gr. Max.	ОК
11. Interface	PIN Type	ОК
12. Finish	White Chromate	TBD

Remarks: This is a preliminary datasheet for reference.





■ Environmental Specification

Parameter	Specification	Remark
1. Operation Temperature Range	-20 ~ +71℃	ОК
2. Storage Temperature range	-55 ~ +100 ℃	ОК
3. Altitude	45000 feet max.	ОК
4. Rapid Decompression (for SOF)	The Filter will be able to withstand the effect of sudden decompression from sea level to 45,000 feet within 15 seconds. The equipment shall not suffer any physical damage when and after being exposed to rapid decompression test IAW RTCA/DO160C paragraph 4.6.2	ОК
5. Humidity	The Filter will not suffer any physical damage, will continue to operate, and will achieve full performance when and after being exposed to relative humidity (RH) of at least 95% at 65 C, including inside and outside condensation, at operating and non-operating temperatures.	ок
6. Vibration	The Filter shall not suffer any physical damage or any degradation of its performance criteria when and after being exposed to random vibration conditions of operational environment as defined in Table 1.	ОК
7. Operational Shock	The Filter will not suffer any physical damage nor any degradation in performance when and after being subjected to 6 shocks, 1 in each opposite direction along each of three orthogonal axes. Each shock impulse shall have time duration of 11 msec, half sine pulse, and acceleration peak value of 6g.	ОК
8. Crash Safety Shock (Impulse)	The Filter shall be tested when subjected to 6 shocks, 1 in each opposite direction along each of three orthogonal axes. Each shock impulse shall have time duration of 11 msec, half sine pulse, and acceleration peak value of 20g.	OK

Table 1: Vibration versus Location

	RTCA/DO-	Random Vibration [grams]		
Equipment	160C Categories	Operating	Non-Operating	Remarks
Filter	C,	6.08	6.08	





■ Simulation Curve

