

PRODUCT SPECIFICATION FOR INFORMATION

PRELIMINARY SPECIFICATION

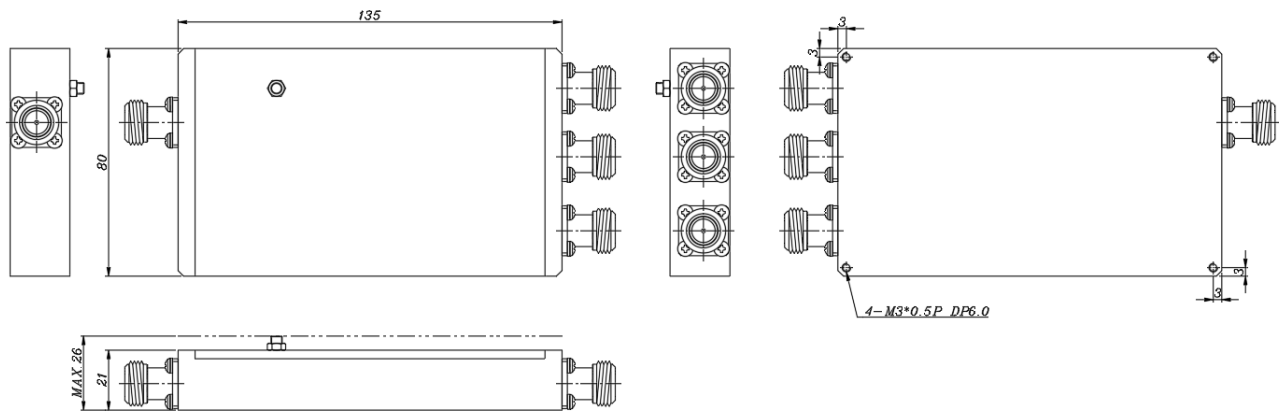
Product Name : Cavity Triplexer

Part No : MMP-3COM_2300-5900MN-A-R0

■ History List

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2024.04.17	Jeffrey Chung	Michael Jeon
2					
3					
4					
5					
6					

■ Mechanical Drawing



■ Electrical Specification

Parameter		Specification	Remark
1. Pass Band Frequency	P1	2300 ~ 2500 MHz	OK
	P2	5000 ~ 5200 MHz	OK
	P3	5700 ~ 5900 MHz	OK
	P4	COM PORT	OK
2. Insertion Loss	P1	0.5 dB Max.	Proposal
	P2	0.5 dB Max	Proposal
	P3	0.5 dB Max	Proposal
3. Return Loss	P1	16.0 dB Min	Proposal
	P2	16.0 dB Min	Proposal
	P3	16.0 dB Min	Proposal
	P4	16.0 dB Min	Proposal
4. Isolation		50dB Min.	Proposal
5. Power	P1	150 W	OK
	P2	150 W	OK
	P3	150 W	OK
6. Impedance		50Ω	OK
7. Operating temp		-	TBD
8. Connector		N-female	Proposal
9. Dimension		135.0 X 80.0 X 21.0mm	Proposal
10. Finish		Black	TBD

Remarks: This is a preliminary datasheet for reference. The final performance is subject to the sample.

Simulation Curve

Insertion loss

A1
freq=2.3000GHz
dB(S(2,1))=-0.1971

A2
freq=2.3570GHz
dB(S(2,1))=-0.1538
Max

A3
freq=2.5000GHz
dB(S(2,1))=-0.2070

B1
freq=5.0000GHz
dB(S(3,1))=-0.3074

B2
freq=5.1040GHz
dB(S(3,1))=-0.2799
Max

B3
freq=5.2000GHz
dB(S(3,1))=-0.3206

C1
freq=5.7000GHz
dB(S(4,1))=-0.3166

C2
freq=5.8010GHz
dB(S(4,1))=-0.3032
Max

C3
freq=5.9000GHz
dB(S(4,1))=-0.3174

Rejection

A4
freq=5.0000GHz
dB(S(2,1))=-125.2065

A5
freq=5.7000GHz
dB(S(2,1))=-137.7978

B4
freq=2.5000GHz
dB(S(3,1))=-113.2816

B5
freq=5.7000GHz
dB(S(3,1))=-67.6211

C4
freq=2.5000GHz
dB(S(4,1))=-116.5362

C5
freq=5.2000GHz
dB(S(4,1))=-60.9573

Return loss

R1
freq=2.3000GHz
dB(S(1,1))=-21.9382

R2
freq=2.5000GHz
dB(S(1,1))=-21.5854

R3
freq=5.0000GHz
dB(S(1,1))=-30.4219

R4
freq=5.2000GHz
dB(S(1,1))=-26.4411

R5
freq=5.7000GHz
dB(S(1,1))=-34.7342

R6
freq=5.9000GHz
dB(S(1,1))=-34.9504

