

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	108	~	678	MHz
IL			0.5	dB
Isolation	18	20		dB
VSWR		1.2	1.3	
Amplitude balance			±1	dB
Phase balance			±3	°

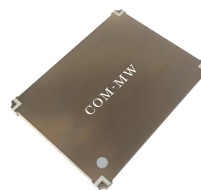
Other parameters

Power Capacity	200W
Phase	90° Hybrid
Impedance	50Ω
Connector	SMD
Operation Temp.	-45~+85°C Design assurance
Storage Temp.	-55~+100°C Design assurance
Quality Grade	Industrial grade

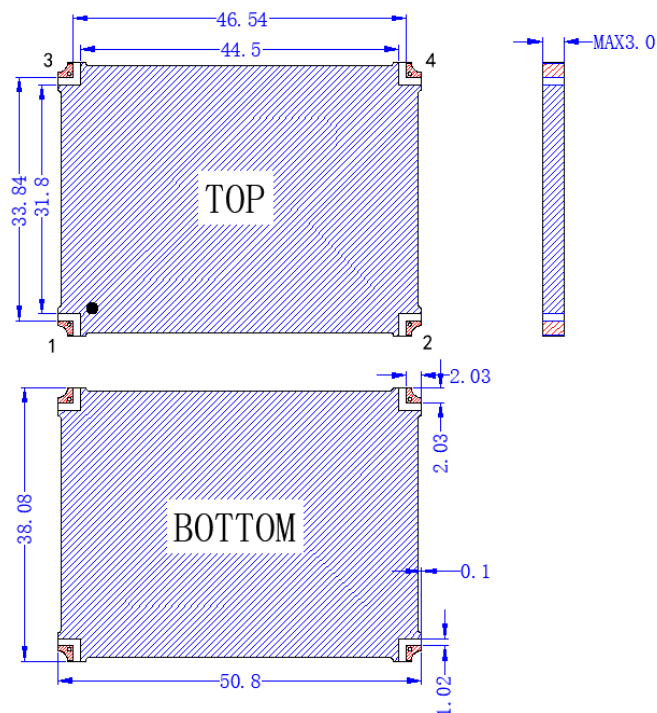
Port Definition

IN	1	2	3	4
ISO	2	1	4	3
0°	3	4	1	2
-90°	4	3	2	1

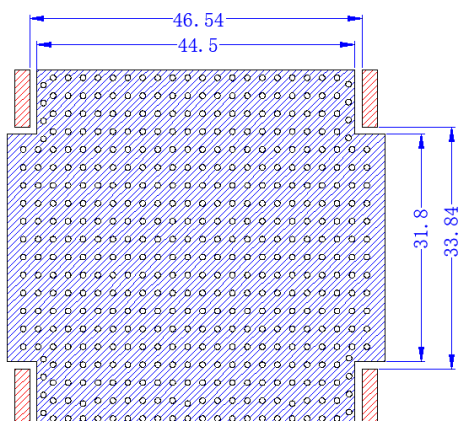
Reference picture



Configuration(mm)

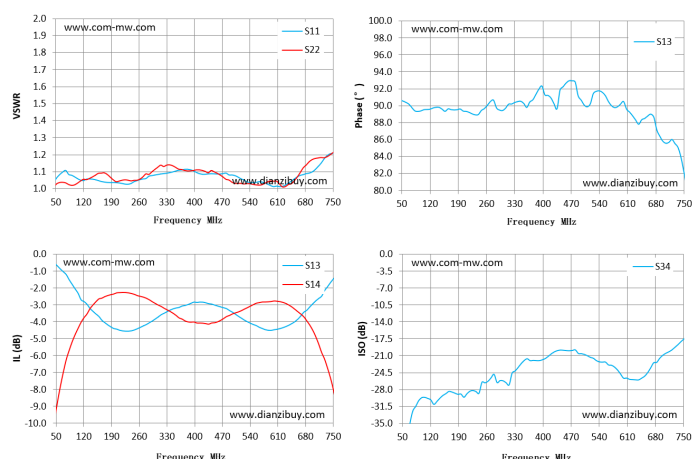


Suggested PCB Layout



Note: The specifications and performance data contained in this data sheet are based on tests established by CMW.

Typical test curve



Typical test data

Frequency MHz	S11 VSWR	S13 IL dB	S14 IL dB	S13 Phase (°)	S34 ISO dB
50.00	1.05	-0.52	-9.98	90.53	-44.36
100.00	1.07	-2.04	-4.76	89.37	-29.67
150.00	1.06	-3.37	-3.01	89.79	-29.78
200.00	1.04	-4.39	-2.36	89.60	-28.92
250.00	1.04	-4.47	-2.39	89.42	-26.47
300.00	1.08	-3.94	-2.82	89.47	-26.14
350.00	1.10	-3.22	-3.50	90.51	-22.62
400.00	1.11	-2.82	-4.02	92.30	-21.84
450.00	1.09	-2.94	-4.08	91.84	-19.82
500.00	1.08	-3.42	-3.54	90.63	-20.56
550.00	1.04	-4.15	-2.99	91.56	-22.31
600.00	1.02	-4.50	-2.81	90.18	-24.78
650.00	1.04	-4.09	-3.13	88.33	-25.63
700.00	1.10	-2.93	-4.50	85.79	-20.90
750.00	1.20	-1.66	-7.34	83.86	-18.11

Note

1	Clean the surface of the product, do not soak the product in cleaning solution for cleaning.
2	The product supports 260 °C reflow soldering.