

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	80	~	1000	MHz
IL		0.9	1.0	dB
Theoretical loss		3		dB
Isolation	-20			dB
VSWR		1.2	1.3	
Amplitude balance		±1		dB
Phase balance		±3		°

Other parameters

Power Capacity	250W Design assurance
Phase	90° Hybrid
Impedance	50Ω
Connector	SMD
Operation Temp.	-45~+85°C Design assurance
Storage Temp.	-55~+125°C Design assurance
Quality Grade	Industrial grade
ROHS	Compliant Available

Port Definition

功分

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

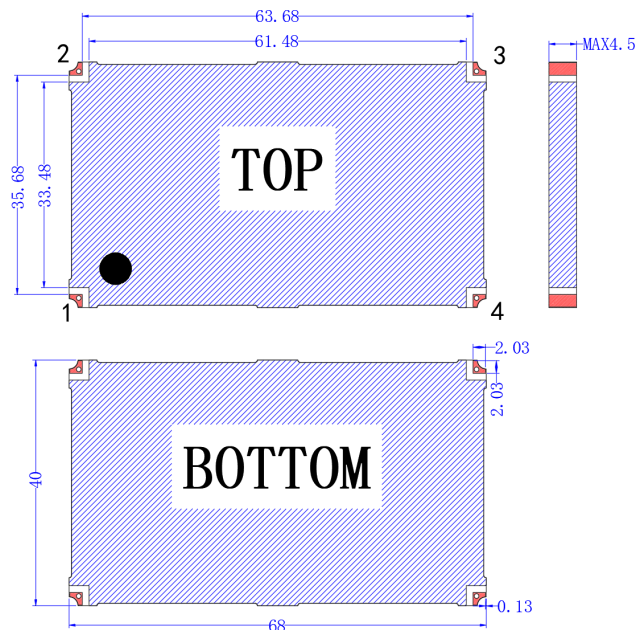
合成

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

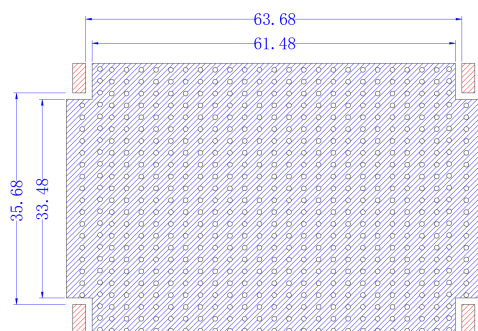
Reference picture



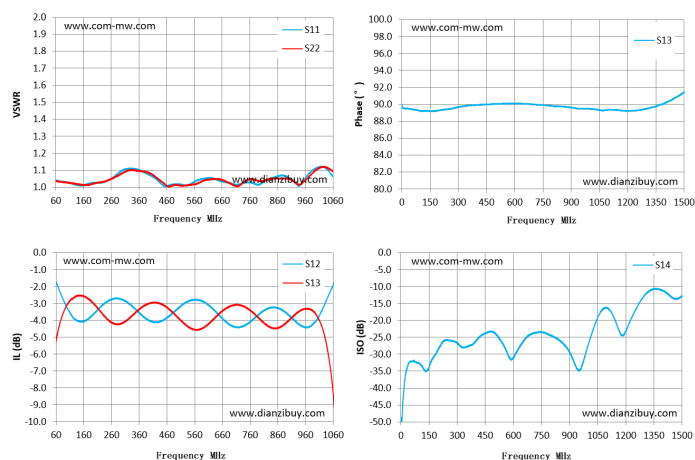
Configuration(mm)



Suggested PCB Layout



Typical test curve



Typical test data

Frequency MHz	S11 VS WR	S22 VS WR	S1 2 IL dB	S1 3 IL dB	S13 Pha se (°)	S14 ISO dB
60.00	1.04	1.04	-1.72	-5.21	89.36	-32.11
131.00	1.02	1.02	-3.97	-2.58	89.22	-35.03
203.00	1.03	1.03	-3.50	-3.14	89.28	-28.19
274.00	1.07	1.06	-2.70	-4.22	89.50	-26.10
346.00	1.11	1.10	-3.34	-3.55	89.83	-27.91
417.00	1.05	1.06	-4.11	-2.95	89.99	-24.97
489.00	1.02	1.01	-3.45	-3.66	90.01	-23.36
560.00	1.03	1.02	-2.78	-4.55	90.08	-28.77
631.00	1.05	1.05	-3.41	-3.88	90.06	-28.05
703.00	1.02	1.01	-4.39	-3.09	89.98	-23.85
774.00	1.02	1.05	-3.90	-3.60	89.86	-23.80
846.00	1.06	1.05	-3.24	-4.47	89.75	-25.89
917.00	1.04	1.04	-3.96	-3.73	89.56	-31.37
989.00	1.10	1.09	-4.20	-3.48	89.47	-29.18
1060.00	1.07	1.09	-1.91	-8.42	89.27	-18.03

Note

- 1 Clean the surface of the product, do not soak the product in cleaning solution for cleaning.
- 2 Supports reflow soldering at 245 °C.