

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	10	~	80	MHz
IL			1.4	dB
Isolation	30			dB
VSWR		1.4	1.8	
Amplitude balance		0.6		dB
Phase balance		6		°

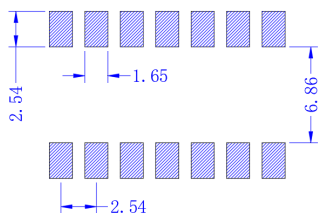
Other parameters

Power Capacity	1W
Phase	90 ° power divider
Impedance	50Ω
Connector	SMD
Operation Temp.	-40~+85°C Design assurance
Storage Temp.	-55~+100°C Design assurance
Quality Grade	Industrial grade
Other	/

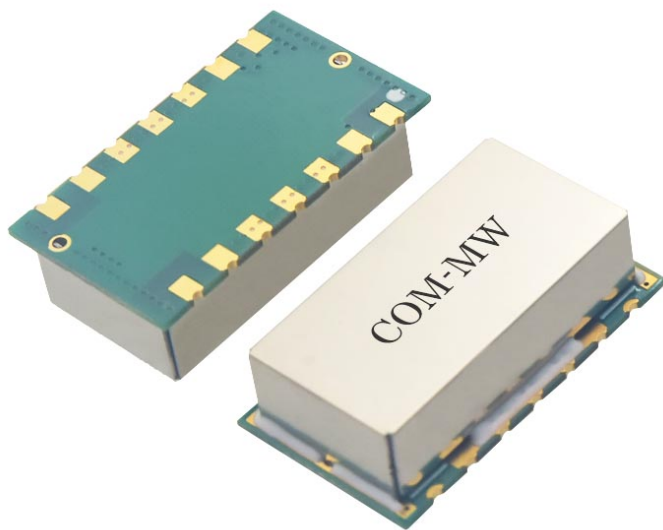
Port Definition

Input port	1
Output port	7 (0°)
Output port	8 (+90°)
GND	2.3.4.5.6.9.10.11.12.13.14

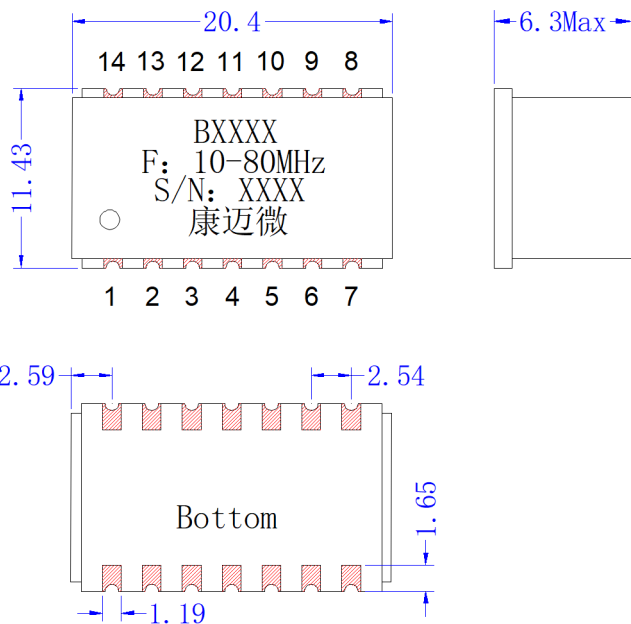
Suggested PCB Layout



Reference picture



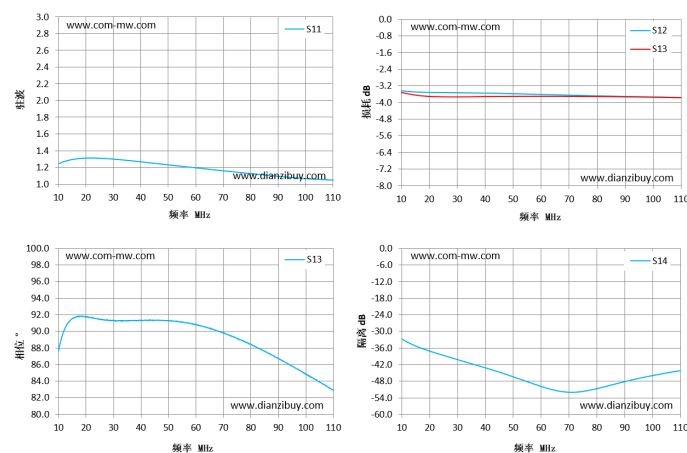
Configuration(mm)



Typical test data

Frequency(MHz)	S11 VSW R	S13 Phase (°)	S12 IL dB	S13 IL dB	S14 ISO dB
10	1.24	87.69	-3.4 3	-3.5	-32.7
17	1.3	91.83	-3.5 1	-3.6 7	-36.0 6
24	1.31	91.52	-3.5 2	-3.7 2	-38.3 8
31	1.3	91.28	-3.5 3	-3.7 2	-40.4 9
39	1.27	91.33	-3.5 5	-3.7 1	-42.8 8
46	1.24	91.36	-3.5 7	-3.7	-45.0 7
53	1.22	91.19	-3.5 9	-3.7	-47.4 7
60	1.19	90.81	-3.6 2	-3.7	-49.9
67	1.17	90.14	-3.6 4	-3.7	-51.7 1
74	1.14	89.31	-3.6 6	-3.7	-51.8 6
81	1.12	88.27	-3.6 8	-3.7 1	-50.4 9
89	1.09	86.88	-3.7 1	-3.7 2	-48.4 2
96	1.07	85.58	-3.7 2	-3.7 3	-46.7 8

Typical test curve



Note

1	Clean the surface of the product, do not soak the product in cleaning solution for cleaning.
2	The product supports 220 °C reflow soldering.