

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	1	~	30	MHz
IL			1.2	dB
Isolation	18	23		dB
VSWR			1.8	
Amplitude balance			0.7	dB
Phase balance		±8		°

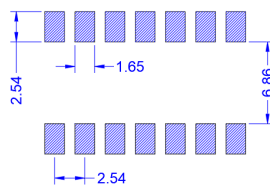
Other parameters

Power Capacity	3W
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

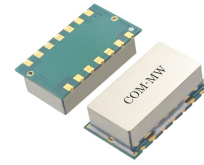
Port Definition

Common port	2	
Output port 0°	6	
Output port 90°	9	
Other ports	GND	

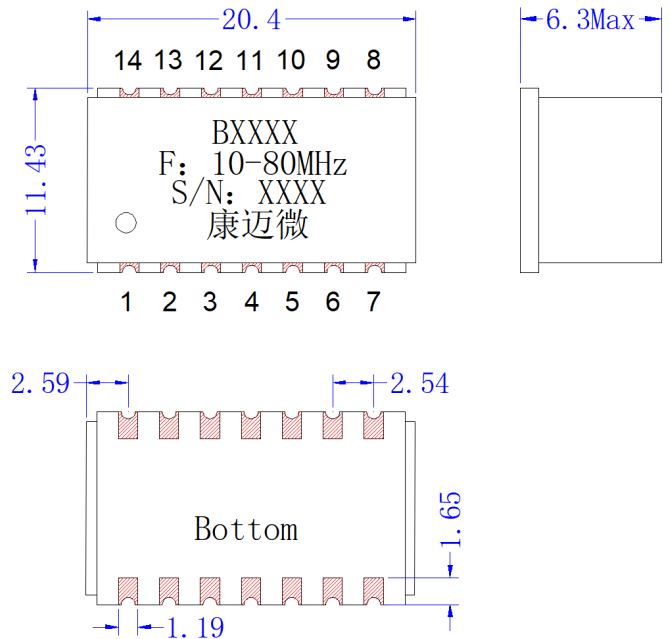
Suggested PCB Layout



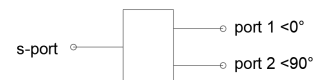
Reference picture



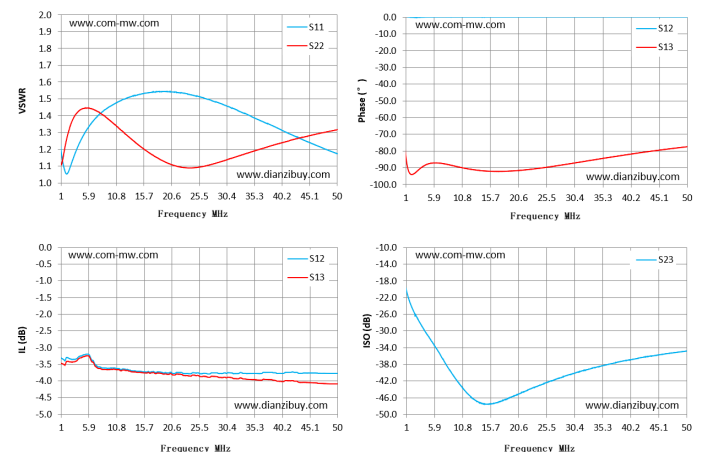
Configuration(mm)



Electrical Schematic



Typical test curve



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

Typical test data

Frequency MHz	S11 VSW R	S12 IL (dB)	S13 IL (dB)	S13 Phase (°)	S23 ISO dB
1	1.2	-3.32	-3.47	-82.77	-20.17
5	1.28	-3.22	-3.27	-87.52	-31.55
8	1.41	-3.6	-3.64	-87.71	-38.14
12	1.5	-3.64	-3.67	-90.65	-45.38
15	1.53	-3.72	-3.74	-91.85	-47.51
19	1.54	-3.75	-3.79	-91.9	-46
22	1.54	-3.75	-3.8	-91.1	-44.32
26	1.51	-3.78	-3.87	-89.38	-42.1
29	1.48	-3.78	-3.9	-87.84	-40.68
33	1.42	-3.75	-3.91	-85.58	-39.13
36	1.38	-3.78	-3.97	-83.94	-38.11
40	1.32	-3.77	-4.01	-81.85	-36.92
43	1.27	-3.76	-4.02	-80.38	-36.16
47	1.21	-3.77	-4.07	-78.58	-35.36
50	1.17			-77.37	-34.82

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.

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