

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	100	~	520	MHz
IL			0.8	dB
Isolation		20		dB
VSWR			1.3	
Amplitude balance			±0.5	dB
Phase balance			±4	°

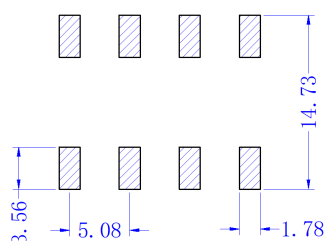
Other parameters

Power Capacity	10W Design assurance
Phase	90° Hybrid
Impedance	50Ω
Connector	SMD
Operation Temp.	-40~+85°C Design assurance
Quality Grade	Industrial grade

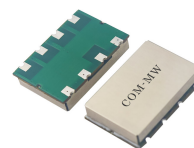
Port Definition

IN	1	---	---	---
ISO	2	---	---	---
0°	7	---	---	---
+90°	8	---	---	---
GND	3, 4, 5, 6	---	---	---

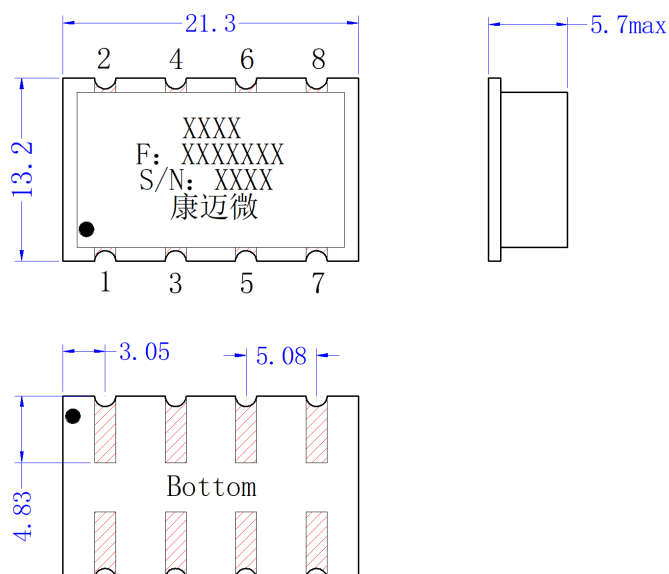
Suggested PCB Layout



Reference picture

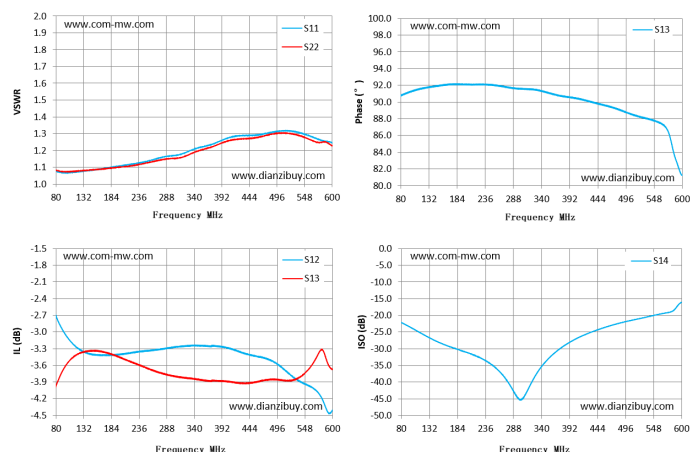


Configuration(mm)



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	S12 IL (dB)	S13 IL (dB)	S13 Phase (°)	S12 ISO dB
80	1.08	-2.72	-3.96	90.79	-22.16
117	1.07	-3.26	-3.42	91.61	-25.38
154	1.09	-3.41	-3.34	92	-28.39
191	1.1	-3.41	-3.43	92.13	-30.54
229	1.12	-3.36	-3.57	92.11	-32.93
266	1.15	-3.32	-3.71	91.9	-37.46
303	1.17	-3.27	-3.8	91.6	-45.2
340	1.21	-3.25	-3.84	91.33	-35.42
377	1.24	-3.25	-3.88	90.73	-29.7
414	1.28	-3.32	-3.91	90.33	-26.29
451	1.29	-3.43	-3.91	89.71	-23.98
489	1.31	-3.54	-3.85	88.97	-22.19
526	1.31	-3.81	-3.87	88.18	-20.86
563	1.28	-4.01	-3.57	87.38	-19.53
600	1.24	-4.41	-3.68	81.21	-16.1

Note

- 1 Short term soaking and cleaning, please dry in a timely manner.
- 2 The product supports 220 °C reflow soldering.