

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	700	~	1100	MHz
IL		0.3		dB
Isolation	22	23		dB
VSWR		1.1	1.2	
Amplitude balance		± 0.65		dB
Phase balance		± 4		°

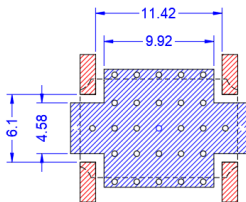
Other parameters

Power	200W
Phase	90° Hybrid
Impedance	50Ω
Connector	SMD
Work Temp.	-40~+85°C Design assurance
Storage Temp.	-55~+100°C Design assurance
Quality Grade	Industrial grade
Other	Replace X3C09A2-03

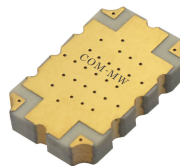
Port Definition

Input port	1
Output port	4 (0°)
Output port	3 (+90°)
Isolated Port	2

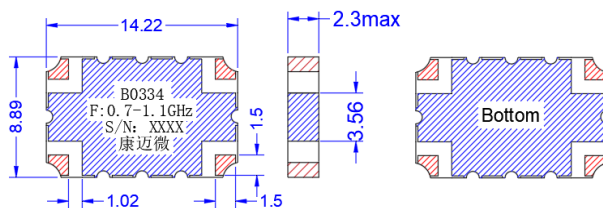
Suggested PCB Layout



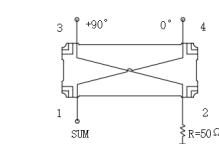
Reference picture



Configuration(mm)


Tolerance: $\pm 0.3\text{mm}$

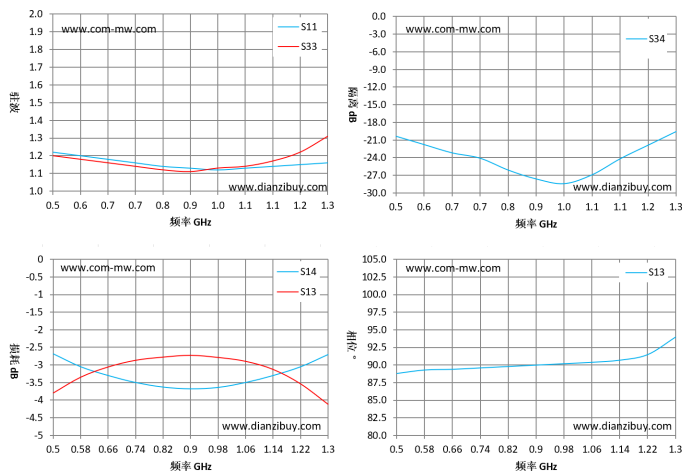
Electrical Schematic



Port Function Configurations

SUM	ISOLATION	0°	-90°
1	2	3	4
2	1	4	3
3	4	1	2
4	3	2	1

Typical test curve



Note

- Please do not wash the product in the cleaning solution.,Please do not wash the product in the cleaning solution.
- The product supports 260 °C reflow soldering.

Typical test data

Frequency (G)	S11 VSW R	S33 VSW R	S1 4 IL	S13 IL dB	S1 4 IS O	S13 Phas e (°)
0.5	1.21	1.22	-2. 68	-3.8	-20 .4	89
0.58	1.16	1.18	-3. 05	-3.3 5	-21 .8	89.3
0.66	1.12	1.15	-3. 3	-3.0 6	-23 .2	89.4
0.74	1.07	1.12	-3. 5	-2.8 7	-24 .1	89.6
0.82	1.05	1.09	-3. 63	-2.7 8	-26 .1	89.8
0.9	1.04	1.05	-3. 68	-2.7 3	-27 .6	90
0.98	1.06	1.03	3. 64	-2.7 9	-28 .4	90.2
1.06	1.1	1.05	-3. 5	-2.9	-26 .9	90.4
1.14	1.15	1.1	-3. 3	-3.1 3	-24 .2	90.7
1.22	1.2	1.15	-3. 05	-3.5 4	-21 .9	91
1.3	1.25	1.21	-2. 7	-4.1 2	-19 .6	94

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