

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	500	~	700	MHz
IL		0.2	0.6	dB
Isolation	18			dB
Input VSWR		1.2	1.4	
Output VSWR		1.2	1.4	
Amplitude balance		1.2	1.8	dB
Phase balance		2	3	°

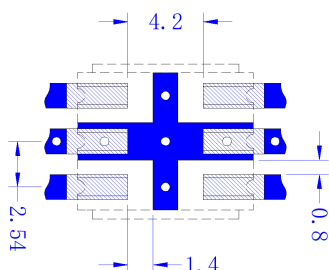
Other parameters

Power	2W
Phase	90°
Impedance	50Ω
Connector	SMD
Work Temp.	-40~+85°C Design assurance
Storage Temp.	-55~+100°C Design assurance
Quality Grade	Industrial grade
Other	Replace LRPQ-700

Port Definition

Input port	6
Output port	1 (+90°)
Output port	4 (0°)
Isolated Port	3 (connected to a 50 Ω load)
GND	2, 5

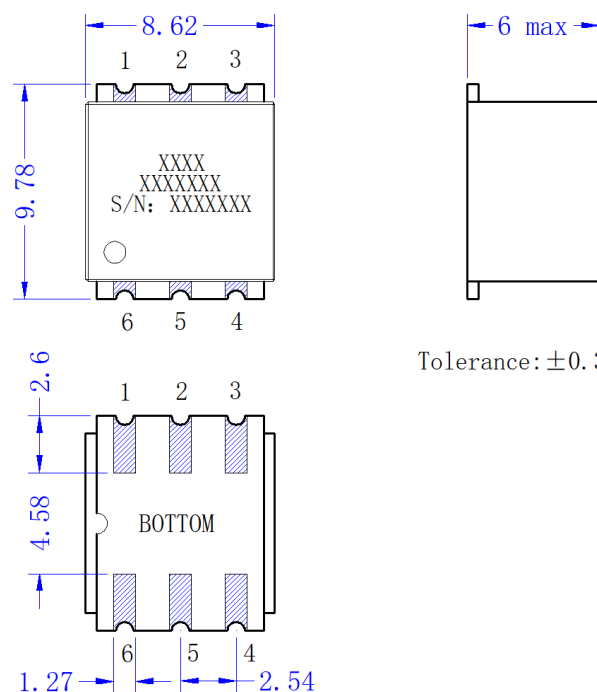
Suggested PCB Layout



Reference picture

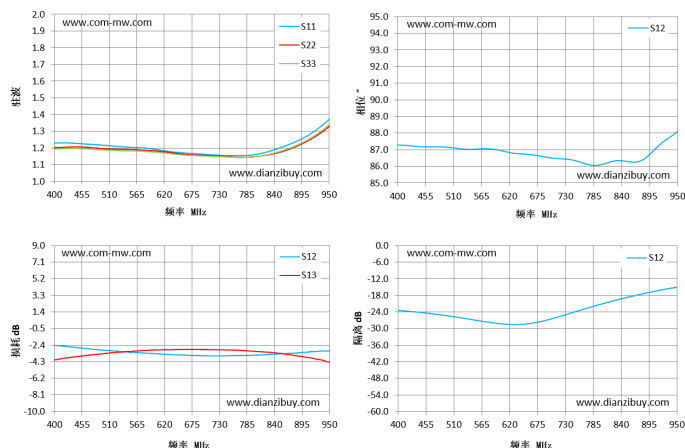


Configuration(mm)



Tolerance: ±0.3mm

Typical test curve



Typical test data

Frequency(MHz)	S11 VSW R	S12 IL dB	S13 IL dB	S12 Phase (°)	S12 ISO dB
400	1.23	-2.4 1	-4.0 9	87.29	-23.4 8
439	1.23	-2.6 6	-3.7 5	87.2	-24.1 2
479	1.22	-2.8 9	-3.4 7	87.18	-24.9 7
518	1.21	-3.0 8	-3.2 6	87.08	-26
557	1.2	-3.2 3	-3.0 8	87.05	-27.1 2
596	1.19	-3.3 7	-2.9 6	87	-28.1 8
636	1.17	-3.5	-2.9	86.77	-28.5 8
675	1.17	-3.5 9	-2.8 8	86.65	-27.7 6
714	1.16	-3.6 3	-2.9 1	86.47	-25.9 4
754	1.15	-3.6 1	-2.9 5	86.3	-23.7 1
793	1.16	-3.5 7	-3.0 7	86.07	-21.6 4
832	1.18	-3.4 6	-3.2 2	86.35	-19.6 9
871	1.22	-3.3 5	-3.4 9	86.28	-17.9 7
911	1.28	-3.1 7	-3.8 3	87.2	-16.4
950	1.37	-3.0 5	-4.3 2	88.12	-15.1 1

Note

1	Please do not wash the product in the cleaning solution.,Please do not wash the product in the cleaning solution.
2	The product supports 220 °C reflow soldering.