

Product features

Broadband, small volume.

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	5	~	1000	MHz
IL		0.7	1	dB
Coupling	19	20	21	dB
Directivity		10		dB
Main line VSWR		1.2	1.35	
Coupled line VSWR		1.2	1.35	

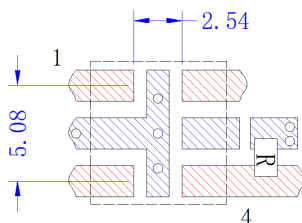
Other parameters

Connector	SMD
Impedance	50Ω
Power Capacity	2W
Operation Temp.	-40~+85°C Design assurance
Storage Temp.	-55~+100°C Design assurance
Quality Grade	Industrial grade
Other	/

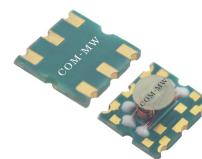
Port Definition

Input port	1
Output port	6
Coupling port	3
Isolated Port	4 (external 50 Ω load)
GND	2

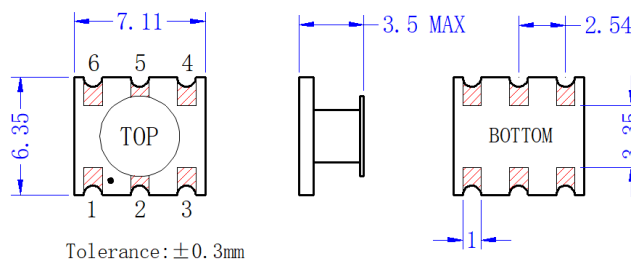
Suggested PCB Layout



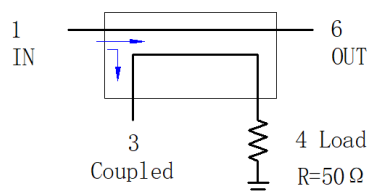
Reference picture



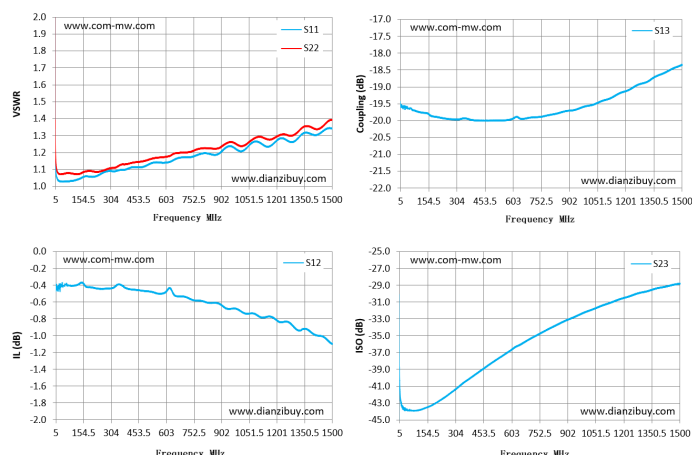
Configuration(mm)



Electrical Schematic



Typical test curve



Typical test data

Frequency MHz	S11 VSWR	S22 VSWR	S12 IL (dB)	S13 Coupling	S23 ISO dB
5	1.09	1.15	-0.44	-19.59	-41.19
112	1.04	1.07	-0.4	-19.76	-43.83
219	1.06	1.09	-0.44	-19.92	-42.7
325	1.09	1.11	-0.42	-19.95	-40.95
432	1.11	1.14	-0.45	-20	-39.24
539	1.14	1.17	-0.49	-20	-37.59
646	1.16	1.19	-0.52	-19.95	-36.09
753	1.18	1.21	-0.58	-19.88	-34.75
859	1.19	1.22	-0.61	-19.75	-33.54
966	1.23	1.26	-0.68	-19.61	-32.48
1073	1.26	1.28	-0.74	-19.42	-31.51
1180	1.25	1.28	-0.79	-19.16	-30.64
1286	1.26	1.3	-0.88	-18.9	-29.9
1393	1.31	1.35	-0.97	-18.62	-29.29
1500	1.34	1.39	-1.1	-18.34	-28.81

Note

1	Clean the surface of the product, do not soak the product in cleaning solution for cleaning.
2	The product supports 260 °C reflow soldering.