

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	1	~	800	MHz
IL		0.6	0.9	dB
Dual Directional coupling	18.5	20	21.8	dB
Directivity	10	15		dB
Main line VSWR		1.4	1.8	
Coupled line VSWR		1.5	1.8	

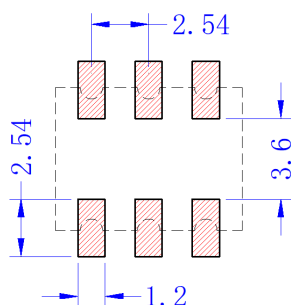
Other parameters

Connector	SMD
Impedance	50Ω
Power Capacity	1W Design assurance
Operation Temp.	-40~+85°C Design assurance
Storage Temp.	-55~+100°C Design assurance
Quality Grade	Industrial grade

Port Definition

Input port	1	6
Output port	6	1
Coupling port	3	4
Isolated Port	4	3
GND	2, 5	2, 5

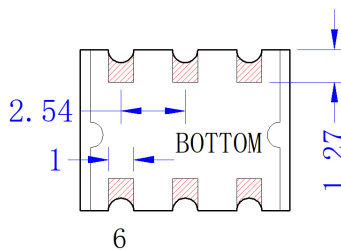
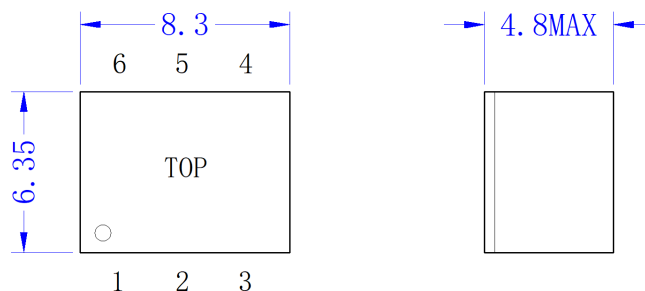
Suggested PCB Layout



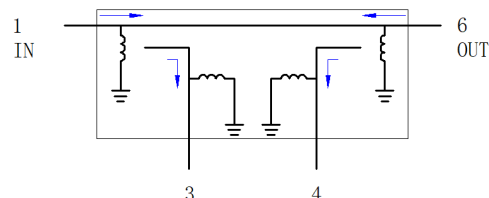
Reference picture



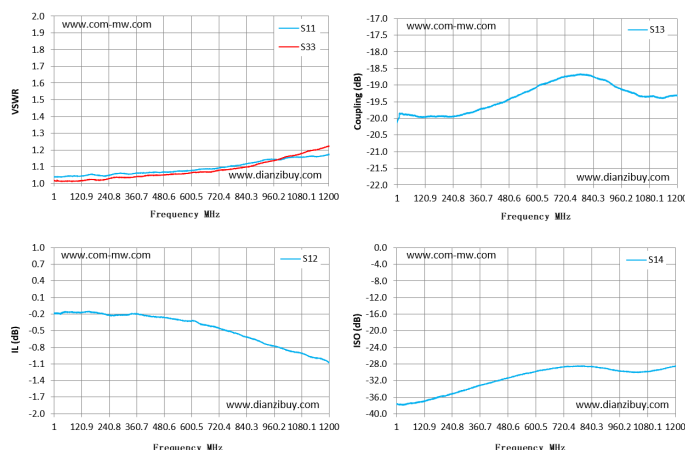
Configuration(mm)



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 VSWR	S33 VSWR	S12 IL (dB)	S13 Coupling	S12 ISO dB
1	1.04	1.02	-0.18	-20.13	-37.65
87	1.04	1.01	-0.17	-19.95	-37.29
172	1.05	1.02	-0.17	-19.95	-36.16
344	1.06	1.04	-0.19	-19.76	-33.4
429	1.07	1.05	-0.25	-19.58	-32.12
515	1.07	1.05	-0.28	-19.33	-30.83
601	1.08	1.06	-0.32	-19.05	-29.76
772	1.1	1.08	-0.52	-18.7	-28.52
857	1.12	1.1	-0.64	-18.8	-28.7
943	1.14	1.13	-0.76	-19.08	-29.48
1029	1.15	1.16	-0.87	-19.3	-29.97
1114	1.16	1.19	-0.97	-19.37	-29.49

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.