

Product features

1	Broadband, low loss.
2	Realize the mutual conversion between single-ended signals and differential signals

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	10	~	6000	MHz
IL		2.5	3.2	dB
Return loss	3	6		dB
Amplitude balance		1		dB
Phase balance		10		°

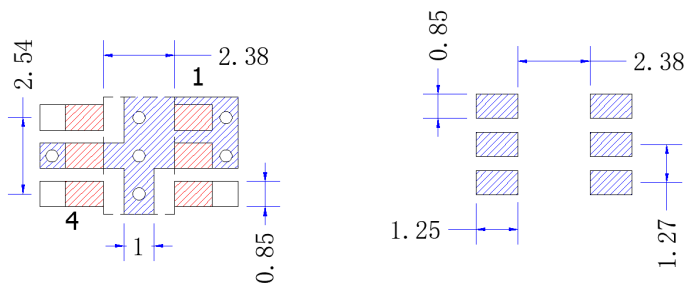
Other parameters

Impedance ratio	1:1 Balun
Connector	SMD
Impedance	50Ω
Power Capacity	0.2W Design assurance
Operation Temp.	-45~+85°C Design assurance
Storage Temp.	-55~+85°C Design assurance
Quality Grade	Industrial grade
Substitutes model	TCM1-63AX+
ROHS	Compliant Available

Port Definition

PRIMARY DOT	Unbalance Port	3
PRIMARY	GND	2
SECONDARY DOT	Balance Port	6
SECONDARY	Balance Port	4

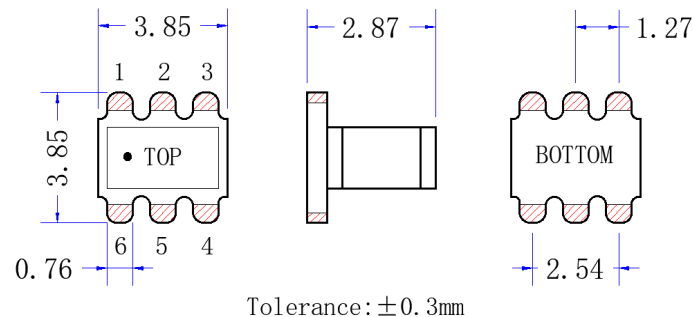
Suggested PCB Layout



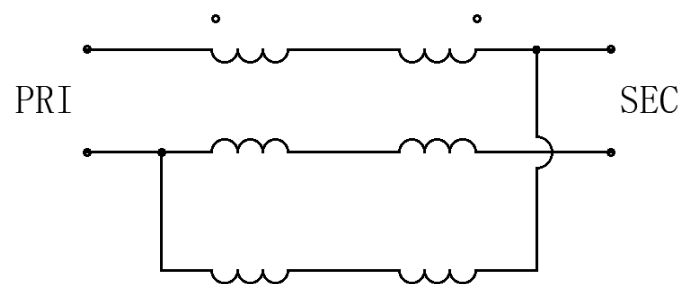
Reference picture



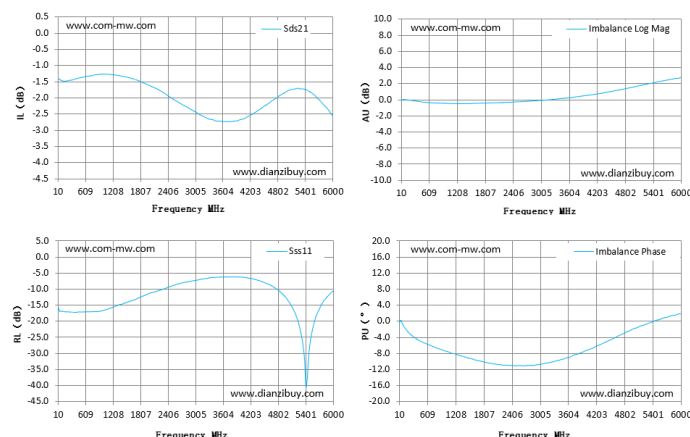
Configuration(mm)



Functional diagram



Typical test curve



Note

1	The product supports 260 °C reflow soldering.
2	Short term soaking and cleaning, please dry in a timely manner.

Typical test data

Frequency MHz	IL dB	RL dB	AU dB	PU °
10.00	-1.42	-15.44	-0.14	-0.44
438.00	-1.39	-17.14	-0.26	-4.72
866.00	-1.28	-17.01	-0.44	-6.80
1294.00	-1.29	-15.20	-0.49	-8.40
1721.00	-1.44	-12.99	-0.42	-9.88
2149.00	-1.70	-10.69	-0.37	-10.77
2577.00	-2.07	-8.65	-0.24	-10.98
3005.00	-2.43	-7.23	-0.08	-10.73
3433.00	-2.71	-6.32	0.15	-9.58
3861.00	-2.72	-6.13	0.44	-7.91
4289.00	-2.50	-6.81	0.78	-5.84
4716.00	-2.06	-9.44	1.27	-3.31
5144.00	-1.74	-16.45	1.79	-1.12
5572.00	-1.85	-22.07	2.29	0.52
6000.00	-2.56	-10.46	2.77	1.94

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