

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	~	4000	MHz
IL			3	dB
Return loss	8			dB
Amplitude balance		1		dB
Phase balance		8		°

Other parameters

Impedance ratio	1:2 Balun
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
Substitutes model	TCM2-43X+
ROHS	Compliant Available

Port Definition

PRIMARY DOT	Unbalance Port	3
PRIMARY	GND	1,2
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	-2.20	-18.18	-0.20	4.45
295.00	-2.21	-19.10	-0.33	-3.77
580.00	-1.93	-17.35	-0.67	-3.93
865.00	-1.63	-17.08	-0.75	-3.62
1150.00	-1.42	-16.76	-0.74	-3.01
1435.00	-1.27	-17.34	-0.70	-3.15
1720.00	-1.16	-17.69	-0.43	-2.19
2005.00	-1.10	-18.03	-0.20	-1.91
2290.00	-1.07	-18.62	0.00	-1.73
2575.00	-1.05	-19.37	0.22	-1.44
2860.00	-1.03	-20.60	0.44	-1.20
3145.00	-1.03	-22.71	0.65	-0.64
3430.00	-1.01	-27.11	0.87	0.02
3715.00	-1.00	-33.16	1.02	1.15
4000.00	-1.13	-22.96	1.21	2.66

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