

# 17.5dB coupler

BD-STB-10042

## Features

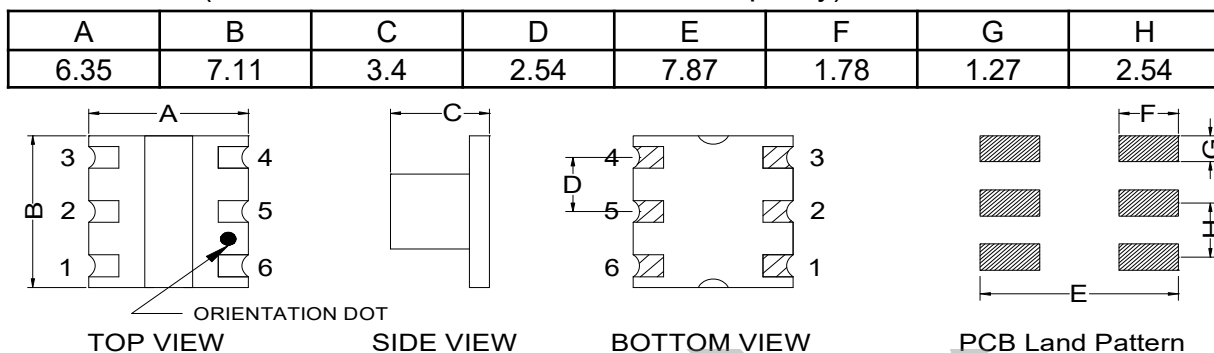
- RoHS compliant
- Wideband 5-1218MHz
- RF power: 0.5W Max.
- DC current: 500mA Max.
- Operation temperature -40~125°C

## Applications

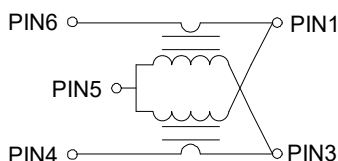
CATV, , wireless applications



Mechanicals (Unit in mm; tolerance: +/-0.25 unless specify):



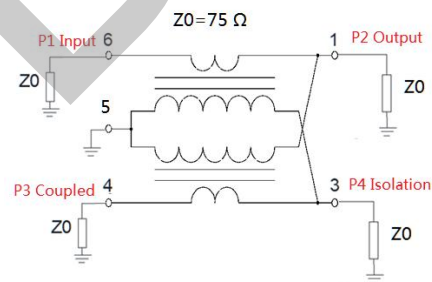
## Schematics



## Pin connections

1	Output
2	No Connected
3	External 75 Ω
4	Coupled
5	Ground
6	Input

## Application & test circuit



Electrical Specifications: TA=25°C, Zo=75Ω

Parameters	Test condition	Unit	Min.	Typ.	Max.
Coupling(Pin6-4)	5-1218MHz	dB	17	17.5	18
Main Line Loss (Pin 6- 1)	5-870MHz	dB	-	0.55	0.7
	870-1000MHz		-	0.65	0.75
	1000-1218MHz		-	0.75	0.85
Input Return Loss (pin6)	5-870MHz	dB	20	24	-
	870-1000MHz		20	23	-
	1000-1218MHz		20	22	-
Output Return Loss (pin1)	5-870MHz	dB	20	22	-
	870-1000MHz		20	23	-
	1000-1218MHz		18	20	-
Coupled Return Loss(pin4)	5-870MHz	dB	20	24	-
	870-1000MHz		20	23	-
	1000-1218MHz		18	20	-
Directivity (pin6-3)	5-870MHz	dB	13	15	-
	870-1000MHz		12	14	-
	1000-1218MHz		11	13	-



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ISO9001/14001 Certified  
UL insulation systems: E358019

## Test curve

