



High Power Chip Terminators

PCS Series

Features

- Efficient heat dissipation provides high power, anti-surge, overload protection.
- Wrap around terminals provide easy and reliable soldering.
- Thin film does not have any innate stress. Therefore, repeated power cycling does not fatigue the element and cause no change in impedance.

Applications

- Wireless base station and Wireless communication devices
- High frequency power supply



Part numbering system

PCS 2012 - 50 - T1

Series code

Size : 1005,1608,2012,3216,5025,6432

Packing quantity:
T=Tape (T1/T5), B=Bulk

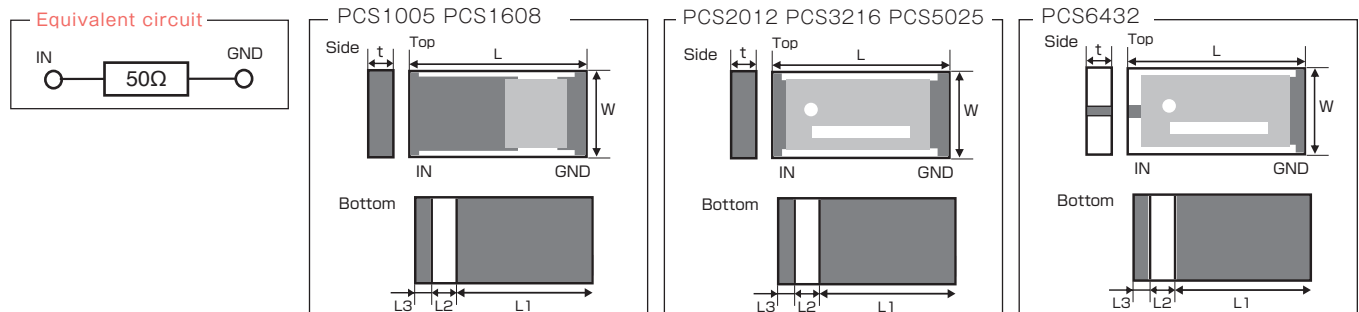
Impedance

Electrical Specification

PCS series (Alumina substrate)

Type	PCS1005	PCS1608	PCS2012	PCS3216	PCS5025	PCS6432
Rated Power	200mW	500mW	1W	2W	5W	10W
VSWR	DC ~ 3GHz	1.2	1.2	1.2	1.3	1.2
	3.1~5GHz	1.2	1.2	1.3	1.3	1.5
	5.1~7.5GHz	1.3	1.3	1.3	1.4	—
	7.6~10GHz	1.3	1.3	1.4	1.5	—
	10.1~12.5GHz	1.4	1.4	1.5	—	—
	12.6~15GHz	1.5	1.5	—	—	—
Operating temperature	-55°C~ +125°C					
Rated operating temperature	+70°C					
Packaging quantity	100pcs/bag (B) 1000pcs/reel (T1) 5000pcs/reel (T5)					

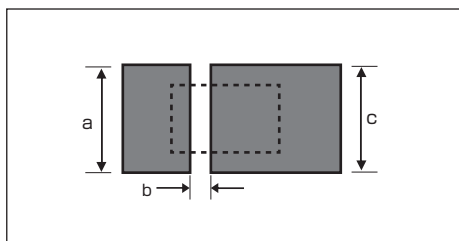
Dimension, Equivalent Circuit and pin arrangement



Type	Size(inch)	L	W	t	L1	L2	L3
PCS1005	0402	1.00±0.10	0.50±0.10	0.30±0.10	0.65±0.10	0.20±0.10	0.15±0.10
PCS1608	0603	1.60±0.15	0.80±0.15	0.40±0.10	1.10±0.15	0.30±0.15	0.20±0.15
PCS2012	0805	2.00±0.15	1.25±0.15	0.40±0.10	1.50±0.15	0.30±0.15	0.20±0.15
PCS3216	1206	3.20±0.20	1.60±0.20	0.40±0.10	2.70±0.20	0.30±0.15	0.20±0.15
PCS5025	2010	5.00±0.20	2.50±0.20	0.40±0.10	4.30±0.20	0.40±0.15	0.30±0.15
PCS6432	2512	6.40±0.20	3.20±0.20	0.40±0.10	5.70±0.20	0.40±0.15	0.30±0.15

(unit : mm)

◆ Recommended land patterns (soldering footprints)

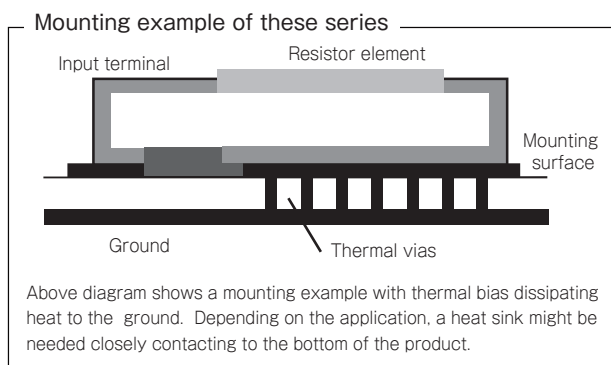


Type	a	b	c
PCS1005	0.70	0.20	0.70
PCS1608	1.20	0.30	1.20
PCS2012	1.20	0.45	1.60
PCS3216	2.00	0.45	2.00
PCS5025	2.90	0.55	2.90
PCS6432	3.60	0.55	3.60

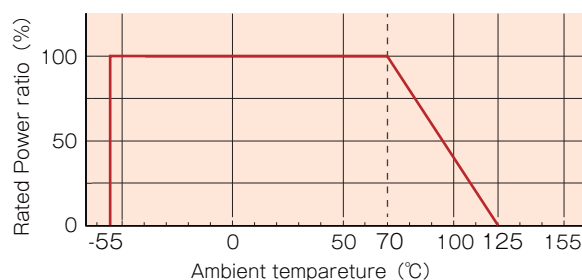
(unit : mm)

◆ Mounting example

Pay special care to heat dissipation when this product is used at maximum rated power.

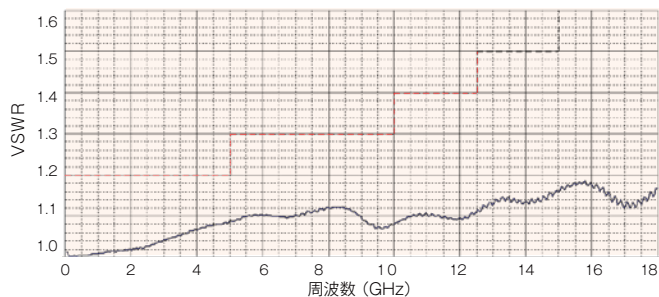


◆ Derating Curve

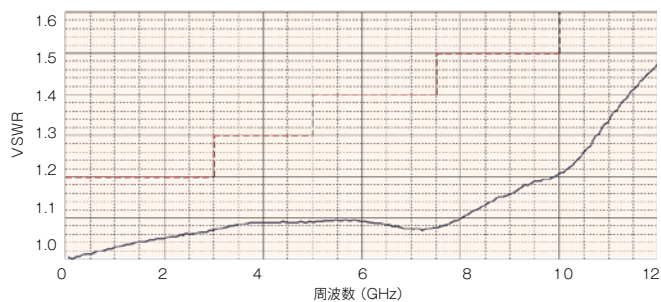


◆ High frequency characteristics

PCS1608 VSWR



PCS3216 VSWR



PCS6432 VSWR

