Lead





High Power Thin Film Chip Terminator

■PCS Series、HPT Series

Features

- · Small high power chip terminator with aluminum nitride and aluminum oxide substrate
- · 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, wireless communication devices, and high frequency power source

◆Part numbering system

HPT 3216 - 50 - T1

Series code(PCS, HPT)

Size: 1005,1608,2012,3216,5025 6432, *6464, *9464H

*HPT series only

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

100pcs/bag (B)

1000pcs/reel (T1)

Impedance

♦ Electrical Specification

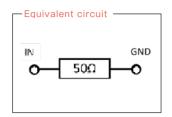
PCS series (Alumina substrate)								
Туре		PCS1005	PCS1608	PCS2012	PCS3216	PCS5025	PCS6432	
Rated Power		200mW	500mW	1 W	2W	5W	10W	
VSWR	DC \sim 3GHz	1.2	1.2	1.2	1.2	1.3	1.2	
	3.1∼5GHz	1.2	1.2	1.3	1.3	1.4	1.5	
	5.1∼7.5GHz	1.3	1.3	1.3	1.4	1.5	_	
VOWN	7.6∼10GHz	1.3	1.3	1.4	1.5	_	_	
	10.1∼12.5GHz	1.4	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)						

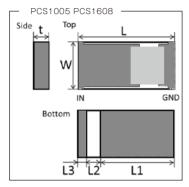
HPT series (ALN substrate)									
Туре		HPT1608	HPT2012	HPT3216	HPT5025	HPT6432	HPT6464	HPT9464H	
Rated Power		2.5W	5W	10W	20W	30W	60W	100W	
	DC \sim 3GHz	1.2	1.2	1.2	1.3	1.3	1.3	1.3	
	3.1∼5GHz	1.2	1.3	1.3	1.5	1.5	_	_	
VSWR	5.1~7.5GHz	1.3	1.3	1.4	_	_	_	_	
VOWN	7.6∼10GHz	1.3	1.4	1.5	_	_	_	_	
	10.1∼12.5GHz	1.4	1.5	_	_	_	_	_	
	12.6∼15GHz	1.5	_	_	-	_	_	_	
Operating temperature		-40°C~ +155°C							
Rated operating temperature		+100℃ at Terminal							

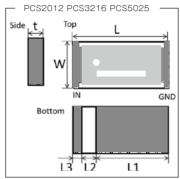
100pcs/bag (B) 1000pcs/reel (T1) 5000pcs/reel (T5)

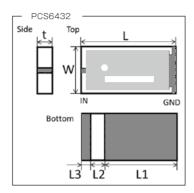
Packaging quantity

♦ Dimension, Equivalent Circuit and pin arrangement

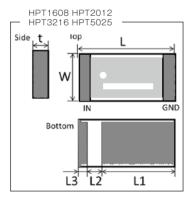


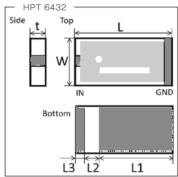


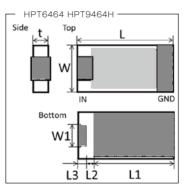




Туре	Size (inch)	L	W	t	L1	L2	L3
PCS1005	0402	1.00±0.10	0.50±0.10	0.30±0.10	0.65±0.10	0.20±0.10	0.15±0.10
PCS1608	0603	1.60±0.15	0.80±0.15	0.40±0.10	1.10±0.15	0.30±0.15	0.20±0.15
PCS2012	0805	2.00±0.15	1.25±0.15	0.40±0.10	1.50±0.15	0.30±0.15	0.20±0.15
PCS3216	1206	3.20±0.20	1.60±0.20	0.40±0.10	2.70±0.20	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







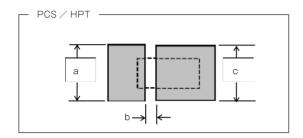
Туре	Size (inch)	L	W	t	L1	L2	L3	W1
HPT1608	0603	1.60±0.15	0.80±0.15	0.40±0.10	1.10±0.15	0.30±0.15	0.20±0.15	_
HPT2012	0805	2.00±0.15	1.25±0.15	0.40±0.10	1.50±0.15	0.30±0.15	0.20±0.15	_
HPT3216	1206	3.20±0.20	1.60±0.20	0.40±0.10	2.70±0.20	0.30±0.15	0.20±0.15	_
HPT5025	2010	5.00±0.20	2.50±0.20	0.65±0.10	3.60±0.20	0.90±0.20	0.50±0.15	_
HPT6432	2512	6.40±0.20	3.20±0.20	0.65±0.10	5.50±0.20	0.70±0.15	0.20±0.15	_
HPT6464	2525	6.30±0.20	6.30±0.20	0.65±0.10	4.90±0.20	0.65±0.15	0.75±0.15	3.05±0.20
HPT9464H	3725	9.40±0.20	6.30±0.20	0.65±0.10	7.10±0.20	1.15±0.15	1.15±0.15	3.00±0.20

unit: mm)

High Power Thin Film Chip Terminator

■ PCS Series、HPT Series

Recommended land patterns (soldering footprints)



Type	а	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)	

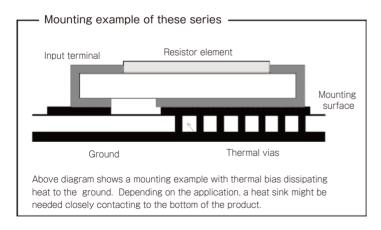
3.60						
(unit	:	mm)				

Туре	а	b	C
HPT1608	1.20	0.40	1.20
HPT2012	1.60	0.40	1.50
HPT3216	2.00	0.40	2.00
HPT5025	2.90	0.90	2.90
HPT6432	3.60	0.70	3.60
HPT6464	3.30	1.15	6.80
НРТ9464Н	3.30	1.15	6.80

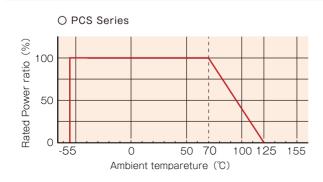
(unit: mm)

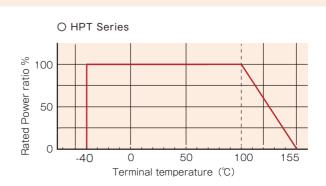
Mounting example

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



Derating Curve





High frequency surface mount components

PCS Series, HPT Series

SSMSUSUMU



