

# High Temperature (230 °C) Zero Ohm Jumper SMD Thin Film Chip Resistor (Strap)



## **DESIGN SUPPORT TOOLS**

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More and more, customers use SMD straps (0  $\Omega$ ) to able or disable a function on their PCB. Vishay Sfernice offers straps in a wide range of standard dimensions: From 02016 to 2512. For applications requiring high temperature withstanding (up to 230 °C).

## **FEATURES**

- · Zero Ohm jumper
- SMD wraparound
- Sizes available: 02016 to 2512
- Thin film technology
- Terminations: Gold or tin/silver
- Resistance value  $< 30 \text{ m}\Omega$
- Maximum current through resistor: 0.5 A to 6.3 A
- Temperature range: -55 °C to +230 °C
- Material categorization: for definitions of compliance please see <a href="https://www.vishav.com/doc?99912"><u>www.vishav.com/doc?99912</u></a>



(5-2008) Available

STANDARD ELECTRICAL SPECIFICATIONS					
MODEL	SIZE	RESISTANCE RANGE $\Omega$	RATED POWER W AT 215°C	MAXIMUM CURRENT A AT 215°C	
PZHT02016	02016	0 (max. 0.02)	0.002	0.28	
PZHT0402	0402	0 (max. 0.02)	0.004	0.4	
PZHT0603	0603	0 (max. 0.02)	0.008	0.56	
PZHT0805	0805	0 (max. 0.02)	0.015	0.77	
PZHT1206	1206	0 (max. 0.025)	0.025	1	
PZHT2010	2010	0 (max. 0.025)	0.08	1.78	
PZHT2512	2512	0 (max. 0.025)	0.1	2	

CLIMATIC SPECIFICATIONS		
Operating temperature range	-55 °C; +215 °C	
Storage temperature range	-55 °C; +230 °C	

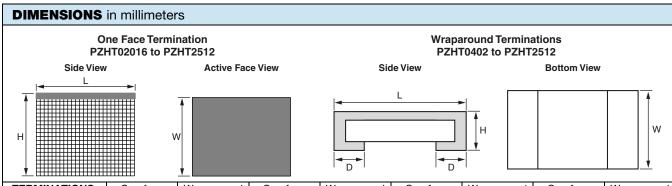
MECHANICAL SPECIFICATIONS			
Substrate	Alumina		
Technology	Thin film		
Film	Au or SnAg over nickel barrier		
Terminations (1)	G type: Au for HMP (high melting point) reflow process over nickel barrier P type: Au one face N type: SnAg for solder reflow over nickel barrier F type: SnAg one face		

#### Note

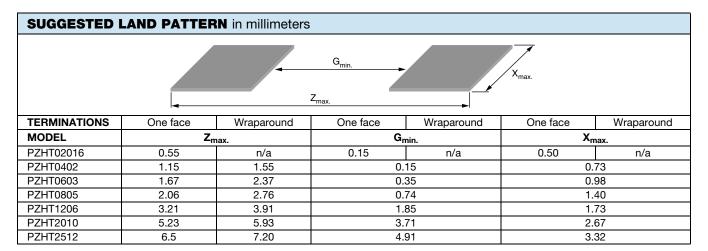
 $<sup>^{(1)}\,</sup>$  SnAg for temperatures up to 200 °C - Au for temperatures up to 230 °C



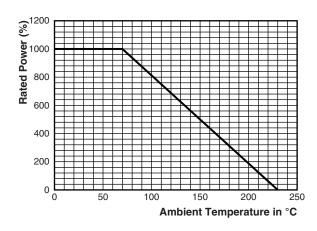




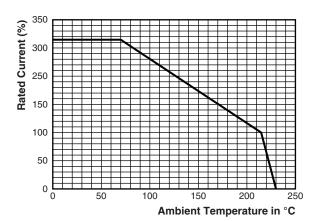
TERMINATIONS	One face	Wraparound	One face	Wraparound	One face	Wraparound	One face	Wraparound
MODEL	Ĺ		W		Н		D	
PZHT02016	0.48 (± 0.1)	n/a	0.39 (± 0.1)	n/a	0.42 ± 0.07		n/a	
PZHT0402	1 ± (	0.152	0.6 ±	0.127	0.5 ±	0.127	n/a	$0.25 \pm 0.1$
PZHT0603	1.52 ±	0.152	0.85 ±	0.127	0.5 ±	0.127	n/a	$0.38 \pm 0.13$
PZHT0805	1.91 ± 0.152		1.27 ± 0.127		$0.5 \pm 0.127$		n/a	$0.38 \pm 0.13$
PZHT1206	3.06 ± 0.152		1.6 ± 0.127		$0.5 \pm 0.127$		n/a	$0.40 \pm 0.13$
PZHT2010	5.08 ± 0.152		2.54 ± 0.127		0.5 ± 0.127		n/a	$0.48 \pm 0.13$
PZHT2512	6.35 ± 0.152		$3.3 \pm 0.127$		0.5 ± 0.127		n/a	$0.48 \pm 0.13$



## **POWER DERATING CURVE**



## **CURRENT DERATED CURVE**





# **PACKAGING**

Antistatic packaging: waffle pack or paper tape or low conductivity plastic tape. PZHT02016 only available in plastic tape.

		NUMBER OF PIEC			
SIZE	MOQ	WAFFLE PACK 2" × 2"	TAPE AND REEL		TAPE WIDTH
			MIN.	MAX.	
02016		n/a		5000	8 mm
0402		340			
0603		100			
0805	100	100	100		
1206		140			
2010		60		1000	
2512		50		2000	

## **PACKAGING RULES**

#### **Waffle Pack**

Can be filled up to maximum quantity indicated in the table here above, taking into account the minimum order quantity. When quantity ordered exceeds maximum quantity of a single waffle pack, the waffle packs are stacked up on the top of each other and closed by one single cover.

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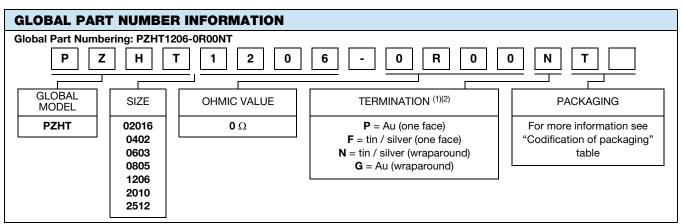
To get "not stacked up" waffle pack in case of ordered quantity > maximum number of pieces per package: Please consult Vishay Sfernice for specific ordering code.

#### Tape and Reel

Can be filled up to maximum quantity indicated in the table here above, taking into account the minimum order quantity. When quantity ordered is between the MOQ and the maximum reel capacity, only one reel is provided.

When several reels are needed for ordered quantity within MOQ and maximum reel capacity: Please consult Vishay Sfernice for specific ordering code.

Parts are packed: active face down.



#### Notes

- (1) PZHT02016: one face termination only
- (2) P and G: for temperatures up to 230°C F and N: for temperatures up to 200°C

CODIFICATION OF PACKAGING				
CODE 18	PACKAGING			
WAFFLE PACK (not available for 02016)				
W	100 min., 1 mult			
WA	100 min., 100 mult (available only in size 1206)			
PLASTIC TAPE (standard for all sizes)				
Т	100 min., 1 mult			
TA	100 min., 100 mult			
TB	250 min., 250 mult			
TC	500 min., 500 mult			
TD	1000 min., 1000 mult			
TE	2500min., 2500 mult			
TF	Full tape (quantity depending on size of chips)			
PAPER TAPE (Available for 0402, 0603, 0805 and 1206. Please consult Vishay Sfernice for other sizes.)				
PT	100 min., 1 mult			
PA	100 min., 100 mult			
PB	250 min., 250 mult			
PC	500 min., 500 mult			
PD (not available for size 0402)	1000 min., 1000 mult			
PE (not available for size 0402)	2500min., 2500 mult			
PF (not available for size 0402)	Full tape (quantity depending on size of chips)			



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