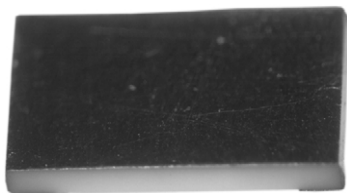


# High Temperature (230 °C) Zero Ohm Jumper SMD Thin Film Chip Resistor (Strap)



## LINKS TO ADDITIONAL RESOURCES



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 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 [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

**HALOGEN**  
**FREE**  
Available

**GREEN**  
(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

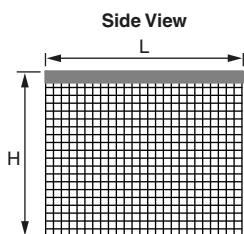
## MECHANICAL SPECIFICATIONS

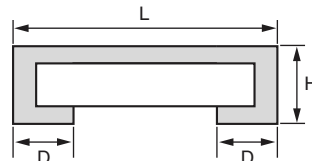
Substrate	Alumina
Technology	Thin film
Film	Au or SnAg over nickel barrier
Terminations <sup>(1)</sup>	<b>G type:</b> Au for HMP (high melting point) reflow process over nickel barrier <b>P type:</b> Au one face <b>N type:</b> SnAg for solder reflow over nickel barrier <b>F type:</b> SnAg one face

### Note

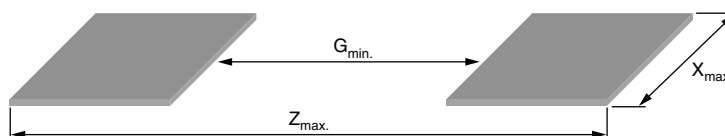
<sup>(1)</sup> SnAg for temperatures up to 200 °C - Au for temperatures up to 230 °C

**DIMENSIONS** in millimeters

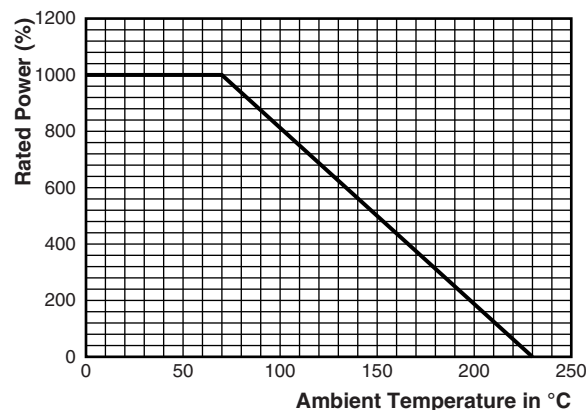
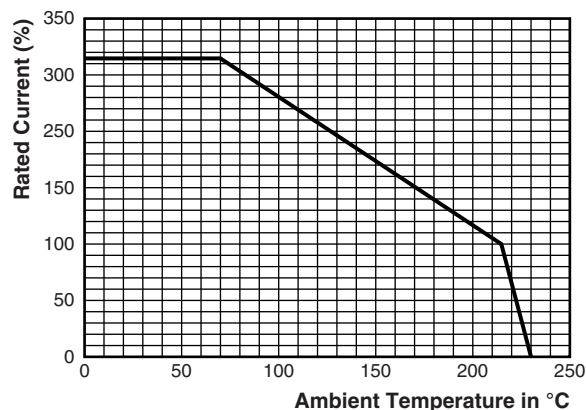
**One Face Termination**  
**PZHT02016 to PZHT2512**

**Active Face View**

**Wraparound Terminations**  
**PZHT0402 to PZHT2512**
**Side View**

**Bottom View**


TERMINATIONS	One face	Wraparound	One face	Wraparound	One face	Wraparound	One face	Wraparound
MODEL	L		W		H		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 ± 0.1
PZHT0603	1.52 ± 0.152		0.85 ± 0.127		0.5 ± 0.127		n/a	0.38 ± 0.13
PZHT0805	1.91 ± 0.152		1.27 ± 0.127		0.5 ± 0.127		n/a	0.38 ± 0.13
PZHT1206	3.06 ± 0.152		1.6 ± 0.127		0.5 ± 0.127		n/a	0.40 ± 0.13
PZHT2010	5.08 ± 0.152		2.54 ± 0.127		0.5 ± 0.127		n/a	0.48 ± 0.13
PZHT2512	6.35 ± 0.152		3.3 ± 0.127		0.5 ± 0.127		n/a	0.48 ± 0.13

**SUGGESTED LAND PATTERN** in millimeters


TERMINATIONS	One face	Wraparound	One face	Wraparound	One face	Wraparound
MODEL	Z <sub>max</sub>		G <sub>min</sub>		X <sub>max</sub>	
PZHT02016	0.55	n/a	0.15	n/a	0.50	n/a
PZHT0402	1.15	1.55	0.15		0.73	
PZHT0603	1.67	2.37	0.35		0.98	
PZHT0805	2.06	2.76	0.74		1.40	
PZHT1206	3.21	3.91	1.85		1.73	
PZHT2010	5.23	5.93	3.71		2.67	
PZHT2512	6.5	7.20	4.91		3.32	

**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.

SIZE	MOQ	NUMBER OF PIECES PER PACKAGE			TAPE WIDTH
		WAFFLE PACK 2" x 2"	TAPE AND REEL		
			MIN.	MAX.	
02016	100	n/a	100	5000	8 mm
0402		340			
0603		100			
0805					
1206		140		4000	
2010		60		1000	
2512		50		2000	12 mm

**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. **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.

**GLOBAL PART NUMBER INFORMATION**

Global Part Numbering: PZHT1206-0R00NT

P	Z	H	T	1	2	0	6	-	0	R	0	0	N	T	
GLOBAL MODEL		SIZE		OHMIC VALUE		TERMINATION <sup>(1)(2)</sup>				PACKAGING					
PZHT		02016 0402 0603 0805 1206 2010 2512		0 Ω		P = Au (one face) F = tin / silver (one face) N = tin / silver (wraparound) G = Au (wraparound)				For more information see “Codification of packaging” table					

**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
<b>WAFFLE PACK (not available for 02016)</b>	
W	100 min., 1 mult
WA	100 min., 100 mult (available only in size 1206)
<b>PLASTIC TAPE (standard for all sizes)</b>	
T	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)
<b>PAPER TAPE (Available for 0402, 0603, 0805 and 1206. Please consult Vishay Sfernice for other sizes.)</b>	
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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