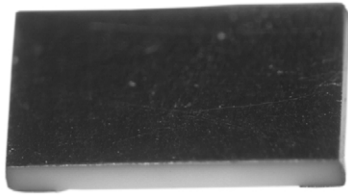


0 Ω SMD Thin Film Chip Resistor (Strap)



LINKS TO ADDITIONAL RESOURCES



More and more, customers use SMD straps (0 Ω) to able or disable a function on their PCB. Vishay Sfernice offers straps in a wide range of standard dimensions: from 02016 to 2512.

FEATURES

- SMD wraparound strap (0 Ω)
- Sizes available: 02016 to 2512
- Thin film technology
- Terminations: tin / silver or tin / lead
- Resistance value < 30 mΩ
- Maximum current through resistor: 0.5 A to 6.3 A
- Screening sequence under 0057 option
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



Note

* This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

STANDARD ELECTRICAL SPECIFICATIONS				
MODEL	SIZE	RESISTANCE RANGE Ω	RATED POWER W	MAXIMUM CURRENT A
PZR02016	02016	0.02	0.02	0.5
PZR0402	0402	0.02	0.04	1.4
PZR0603	0603	0.02	0.08	2
PZR0805	0805	0.02	0.15	2.7
PZR1206	1206	0.025	0.25	3.2
PZR2010	2010	0.025	0.8	5.7
PZR2512	2512	0.025	1	6.3

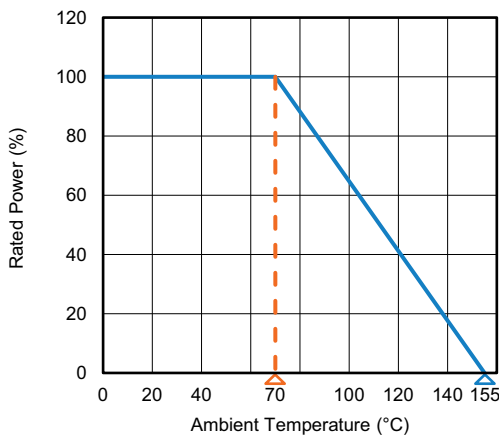
CLIMATIC SPECIFICATIONS	
Operating temperature range	-55 °C; +155 °C
Storage temperature range	

MECHANICAL SPECIFICATIONS	
Substrate	Alumina
Technology	Thin film
Film	SnPb or SnAg over nickel barrier over Au
Terminations	B type: SnPb for solder reflow over nickel barrier C type: SnPb one face N type: SnAg for solder reflow over nickel barrier F type: SnAg one face

DIMENSIONS in millimeters								
One Face Termination PZR02016 to PZR2512				Wraparound Terminations PZR0402 to PZR2512				
	Side View	Active Face View		Side View		Bottom View		
TERMINATIONS	One face	Wraparound	One face	Wraparound	One face	Wraparound	One face	Wraparound
MODEL	L		W		H		D	
PZR02016	0.48 (± 0.1)	n/a	0.39 (± 0.1)	n/a	0.42 ± 0.07		n/a	
PZR0402	1 ± 0.152		0.6 ± 0.127		0.5 ± 0.127		n/a	0.25 ± 0.1
PZR0603	1.52 ± 0.152		0.85 ± 0.127		0.5 ± 0.127		n/a	0.38 ± 0.13
PZR0805	1.91 ± 0.152		1.27 ± 0.127		0.5 ± 0.127		n/a	0.38 ± 0.13
PZR1206	3.06 ± 0.152		1.6 ± 0.127		0.5 ± 0.127		n/a	0.40 ± 0.13
PZR2010	5.08 ± 0.152		2.54 ± 0.127		0.5 ± 0.127		n/a	0.48 ± 0.13
PZR2512	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 _{max.}		G _{min.}		X _{max.}	
PZR02016	0.55	n/a	0.15	n/a	0.50	n/a
PZR0402	1.15	1.55	0.15		0.73	
PZR0603	1.67	2.37	0.35		0.98	
PZR0805	2.06	2.76	0.74		1.40	
PZR1206	3.21	3.91	1.85		1.73	
PZR2010	5.23	5.93	3.71		2.67	
PZR2512	6.5	7.20	4.91		3.32	

POWER DERATING CURVE



PACKAGING

Antistatic packaging: Waffle pack or paper tape or low conductivity plastic tape.

PZR02016 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 0705						4000
1206		140		1000		
2010		60				
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.

OPTIONS

0057 option ⁽¹⁾:

Screening sequence:

- 100 % rapid change of temperature
- 100 % electrical control
- 100 % visual inspection

Note

⁽¹⁾ Termination B tin / lead wraparound available only



GLOBAL PART NUMBER INFORMATION																	
Global Part Numbering: PZR02016-0R00FT099																	
P	Z	R	0	2	0	1	6	-	0	R	0	0	F	T	0	9	9
GLOBAL MODEL	SIZE	OHMIC VALUE		TERMINATION ⁽¹⁾			PACKAGING		OPTION								
PZR	02016 0402 0603 0805 1206 2010 2512	0 Ω		C = tin / lead (one face) F = tin / silver (one face) N = tin / silver (wraparound) B = tin / lead (wraparound)			For more information see Codification of Packaging table		From 1 to 3 digits, leave blank if no option								

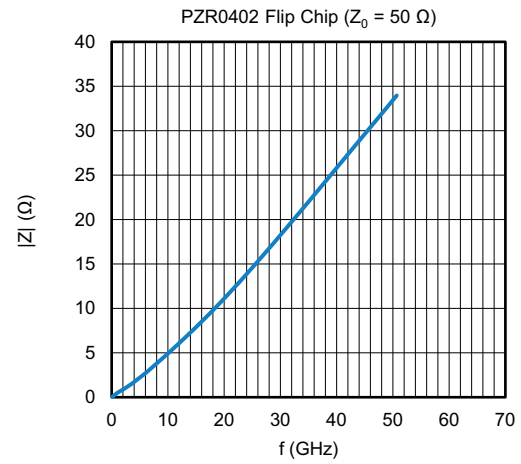
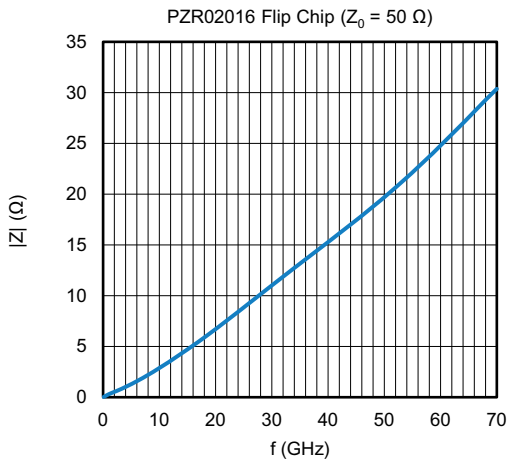
Notes

⁽¹⁾ PZR02016: one face termination only

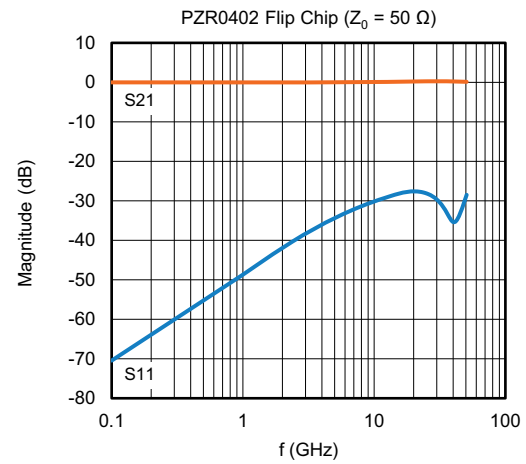
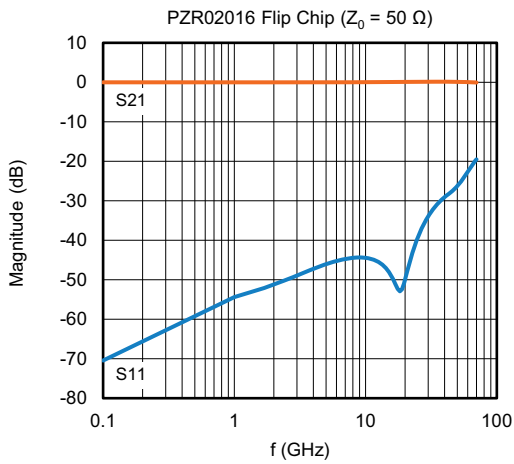
CODIFICATION OF PACKAGING	
CODE 18	PACKAGING
WAFFLE PACK (Not available for 02016)	
W	100 min., 1 mult.
WA	100 min., 100 mult. (available only in size 1206)
PLASTIC TAPE (standard for all sizes)	
T	100 min., 1 mult.
TA	100 min., 100 mult.
TB	250 min., 250 mult.
TC	500 min., 500 mult.
TD	1000 min., 1000 mult.
TE	2500 min., 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)	2500 min., 2500 mult.
PF (not available for size 0402)	Full tape (quantity depending on size of chips)



INTERNAL IMPEDANCE CURVES



S-PARAMETER





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