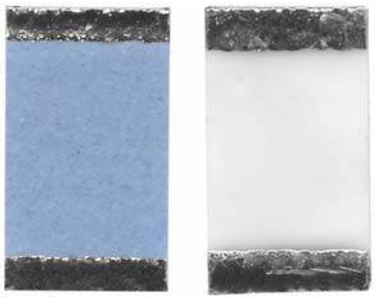
High Precision Wraparound - Wide Ohmic Value Range Thin Film Chip Resistors, Sulfur Resistant



For low noise and precision applications, superior stability, low temperature coefficient of resistance, and low voltage coefficient, Vishay Sfernice's proven precision thin film wraparound resistors exceed requirements of MIL-PRF-55342G characteristics Y ± 10 ppm/°C (-55 °C; +155 °C) down to ± 5 ppm/°C (-55 °C; +155 °C).

FEATURES

- Load life stability 0.02 % typical at 8000 h at 70 °C under Pd (0.033 % maximum)
- Low temperature coefficient down to **5 ppm/°C** (-55 °C; +155 °C)
- Very low noise < - 35 dB and voltage coefficient < 0.01 ppm/V
- Wide resistance range: 10 Ω to 200 MΩ depending on size
- Tolerances to **± 0.01 %**
- In lot tracking ≤ 5 ppm/°C
- Termination: Thin film technology
- Short circuits (jumpers) r < 50 mR, I < 2 A, see PZR datasheet (www.vishay.com/doc?53053)
- Withstand moisture resistance test of AEC-Q200
- Sulfur resistant (per ASTM B809-95 humid vapor test)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free Available

RoHS* Available

HALOGEN FREE Available

GREEN (5-2008) Available

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 (2) (Ω)	RATED POWER W Pn (1)	RATED POWER W Pd (1)	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C
P0302	0302	10 to 750K	0.040	0.030	25	0.01, 0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 5	5, 10, 25, 50, 100
P0402	0402	10 to 1.5M	0.063	0.040	50	0.01, 0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 5	5, 10, 25, 50, 100
P0505	0505	10 to 4M	0.125	0.050	50	0.01, 0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 5	5, 10, 25, 50, 100
P0603	0603	10 to 3.2M	0.125	0.100	75	0.01, 0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 5	5, 10, 25, 50, 100
P0805 (3)	0805	10 to 10M	0.200	0.125	150	0.01, 0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 5	5, 10, 25, 50, 100
P1005	1005	10 to 8.1M	0.250	0.125	75	0.01, 0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 5	5, 10, 25, 50, 100
P1206	1206	10 to 35M	0.330	0.250	200	0.01, 0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 5	5, 10, 25, 50, 100
P1505	1505	10 to 15M	0.350	0.175	200	0.01, 0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 5	5, 10, 25, 50, 100
P2010	2010	10 to 76M	1 (4)	0.500	300	0.01, 0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 5	5, 10, 25, 50, 100
P2512	2512	10 to 200M	2 (4)	1	300	0.01, 0.02, 0.05, 0.1, 0.25, 0.5, 1, 2, 5	5, 10, 25, 50, 100

Notes

(1) Pn = Nominal power - Pd = Derated power intended to improve stability.

(2) **For ohmic range versus tolerance and TCR see detailed table on next page.**

(3) Model P0805 being same size than case 0705 with same performances, only codification of P0805 remains.

(4) With special assembly care.

CLIMATIC SPECIFICATIONS

Operating temperature range	-55 °C; +155 °C

Note

- For temperature up to 230 °C, see PHT datasheet (www.vishay.com/doc?53050).

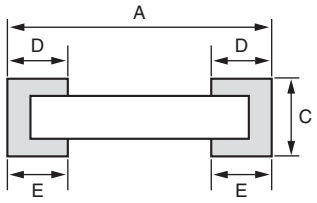
PERFORMANCE VS. HUMID SULFUR VAPOR

Test conditions	50 °C ± 2 °C, 85 % ± 4 % RH, exposure time 500 h
Test results	Resistance drift < (0.05 % *R* + 0.05 Ω), no corrosion products observed

MECHANICAL SPECIFICATIONS

Substrate	Alumina
Technology	Thin film
Film	**Nickel chromium** with mineral passivation or **CrSi**
Protection	Epoxy + silicone
Terminations	**B type:** SnPb over nickel barrier for solder reflow **N type:** SnAg over nickel barrier **G type:** gold over nickel barrierfor other applications

DIMENSIONS in millimeters (inches)

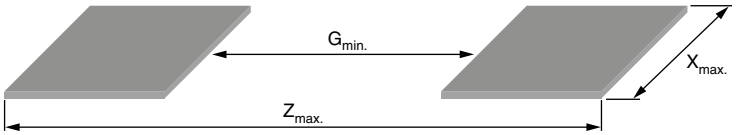


CASE SIZE	A	B	C	D/E	
	MAX. TOL. +0.152 (+0.006) MIN. TOL. -0.152 (-0.006)	MAX. TOL. +0.127 (+0.005) MIN. TOL. -0.127 (-0.005)			
	NOMINAL	NOMINAL		NOMINAL	TOLERANCE
0302	0.75 (0.029)	0.60 (0.024)	0.5 (0.02) ± 0.127 (0.005)	0.15 (0.006)	0.08 (0.003)
0402	1.00 (0.039)	0.60 (0.024)		0.25 (0.010)	0.1 (0.004)
0505	1.27 (0.005)	1.27 (0.050)		0.38 (0.015)	0.13 (0.005)
0603	1.52 (0.060)	0.85 (0.033)			
0805	1.91 (0.075)	1.27 (0.050)			
1005	2.54 (0.100)	1.27 (0.050)			
1206	3.06 (0.120)	1.60 (0.063)		0.40 (0.016)	
1505	3.81 (0.150)	1.32 (0.052)		0.48 (0.019)	
2010	5.08 (0.200)	2.54 (0.100)			
2512	6.30 (0.248)	3.30 (0.130)		0.48 (0.019)	

Note

- Case 0805 being same than case 0705, only codification of 0805 remains.

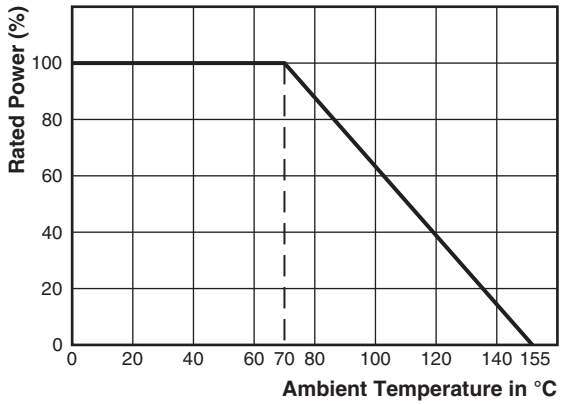
SUGGESTED LAND PATTERN (to IPC-7351A)



CHIP SIZE	**DIMENSIONS** in millimeters (inches)		
	$Z_{max.}$	$G_{min.}$	$X_{max.}$
0302	1.30 (0.051)	0.15 (0.006)	0.73 (0.029)
0402	1.55 (0.061)	0.15 (0.006)	0.73 (0.029)
0505	1.82 (0.072)	0.10 (0.004)	1.40 (0.055)
0603	2.37 (0.093)	0.35 (0.014)	0.98 (0.039)
0805	2.76 (0.109)	0.74 (0.029)	1.40 (0.055)
1005	3.39 (0.133)	1.37 (0.054)	1.40 (0.055)
1206	3.91 (0.154)	1.85 (0.073)	1.73 (0.068)
1505	4.66 (0.183)	2.44 (0.096)	1.45 (0.057)
2010	5.93 (0.233)	3.71 (0.146)	2.67 (0.105)
2512	7.15 (0.281)	4.93 (0.194)	3.43 (0.135)

TEMPERATURE COEFFICIENT		
TCR	**CODE**	**FILM**
± 5 ppm/°C	C (-55 °C; +155 °C)	NiCr
± 5 ppm/°C	Z (0 °C; +70 °C)	NiCr
± 10 ppm/°C	Y	NiCr
± 25 ppm/°C	E	NiCr
± 50 ppm/°C	H	NiCr or CrSi
± 100 ppm/°C	K	NiCr or CrSi

POWER DERATING CURVE



BEST TOLERANCE AND TCR VS. OHMIC VALUE			
STYLE	**RANGE (Ω)**	**TOLERANCE (± %)**	**TCR CODE**
0302	10 to < 100	0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	100 to 35K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	> 35K to 50K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	Z; Y; E; H; K
	> 50K to 75K	0.05; 0.1; 0.25; 0.5; 1; 2; 5	E; H; K
	> 75K to 750K	0.1; 0.25; 0.5; 1; 2; 5 (1)	H; K
0402	10 to < 100	0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	100 to 67K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	> 67K to 100K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	Z; Y; E; H; K
	> 100K to 150K	0.05; 0.1; 0.25; 0.5; 1; 2; 5	E; H; K
	> 150K to 1M5	0.1; 0.25; 0.5; 1; 2; 5 (1)	H; K
0505	10 to < 100	0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	100 to 187K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	> 187K to 260K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	Z; Y; E; H; K
	> 260K to 400K	0.05; 0.1; 0.25; 0.5; 1; 2; 5	E; H; K
	> 400K to 4M	0.1; 0.25; 0.5; 1; 2; 5 (1)	H; K
0603	10 to < 100	0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	100 to 160K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	> 160K to 332K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	Z; Y; E; H; K
	> 332K to 500K	0.05; 0.1; 0.25; 0.5; 1; 2; 5 (1)	E; H; K
	> 500K to 3M2	0.1; 0.25; 0.5; 1; 2; 5	H; K
0805	10 to < 100	0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	100 to 360K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	> 360K to 511K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	Z; Y; E; H; K
	> 511K to 750K	0.05; 0.1; 0.25; 0.5; 1; 2; 5	E; H; K
	> 750K to 10M	0.1; 0.25; 0.5; 1; 2; 5 (1)	H; K

BEST TOLERANCE AND TCR VS. OHMIC VALUE			
STYLE	**RANGE (Ω)**	**TOLERANCE (± %)**	**TCR CODE**
1005	10 to < 100	0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	100 to 400K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	> 400K to 550K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	Z; Y; E; H; K
	> 550K to 810K	0.05; 0.1; 0.25; 0.5; 1; 2; 5	E; H; K
	> 810K to 8M1	0.1; 0.25; 0.5; 1; 2; 5 (1)	H; K
1206	10 to < 100	0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	100 to 1M3	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	> 1M3 to 2M	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	Z; Y; E; H; K
	> 2M to 3M5	0.05; 0.1; 0.25; 0.5; 1; 2; 5	E; H; K
	> 3M5 to 35M	0.1; 0.25; 0.5; 1; 2; 5 (1)	H; K
1505	10 to < 100	0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	100 to 720K	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	> 720K to 1M	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	Z; Y; E; H; K
	> 1M to 1M5	0.05; 0.1; 0.25; 0.5; 1; 2; 5	E; H; K
	> 1M5 to 15M	0.1; 0.25; 0.5; 1; 2; 5 (1)	H; K
2010	10 to < 100	0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	100 to 3M8	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	> 3M8 to 5M	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	Z; Y; E; H; K
	> 5M to 7M5	0.05; 0.1; 0.25; 0.5; 1; 2; 5	E; H; K
	> 7M5 to 76M	0.1; 0.25; 0.5; 1; 2; 5 (1)	H; K
2512	10 to < 100	0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	100 to 7M6	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	C; Z; Y; E; H; K
	> 7M6 to 10M	0.01; 0.02; 0.05; 0.1; 0.25; 0.5; 1; 2; 5	Z; Y; E; H; K
	> 10M to 15M	0.05; 0.1; 0.25; 0.5; 1; 2; 5	E; H; K
	> 15M to 200M	0.1; 0.25; 0.5; 1; 2; 5 (1)	H; K

Note

(1) Tolerance 0.05 % on request.

POPULAR OPTIONS

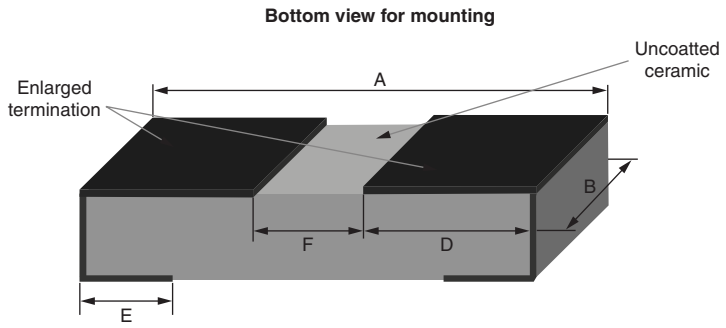
For any option it is recommended to consult Vishay Sfernice for availability first.

Option: Enlarged Terminations

For stringent and special power dissipation requirements, the thermal resistance between the resistive layer and the solder joint can be reduced using enlarged terminations chip resistors which are soldered on large and thick copper pads acting as heatsink (see application note: 53048 Power Dissipation in High Precision Vishay Sfernice Chip Resistors and Arrays (P Thin Film, PRA Arrays, CHP Thick Film) www.vishay.com/doc?53048.

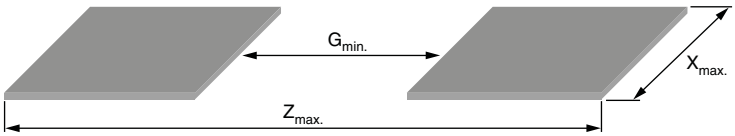
Option to order 0063: (applies to size 1206/1505/2010).

DIMENSIONS (Option 0063) in millimeters



CASE SIZE	A	B	E	D	F		
	MAX. TOL. +0.152 MIN. TOL. -0.152	MAX. TOL. +0.127 MIN. TOL. -0.127	MAX. TOL. +0.13 MIN. TOL. -0.13	MAX. TOL. +0.13 MIN. TOL. -0.13			
	NOMINAL	NOMINAL	NOMINAL	NOMINAL	NOMINAL	MIN.	MAX.
1206	3.06	1.60	0.40	1.215	0.63	0.50	0.76
1505	3.81	1.32	0.48	1.59			
2010	5.08	2.54		2.215			
2512	6.30	3.30		2.835			

SUGGESTED LAND PATTERN (Option 0063)



CHIP SIZE	DIMENSIONS (IN MILLIMETER)		
	$Z_{max.}$	$G_{min.}$	$X_{max.}$
1206	3.91	0.50	1.73
1505	4.66		1.45
2010	5.93		2.67
2512	7.15		3.43

Option: Marking

Option to order 0013:
Marking of ohmic value and tolerance:
Sizes: 0805 to 1005: 3 digits marking (according to EIA-96)
Sizes: 1206 to 2512: 4 digits marking (same codification than in the ordering procedure)
Tolerance indicated by a color dot.
Option to order 0014:
Marking of ohmic value:
Sizes: 0805 to 1005: 3 digits marking (according to EIA-96)
Sizes: 1206 to 2512: 4 digits marking (same codification than in the ordering procedure)
No standard marking available for smaller sizes.
A price adder will apply to the unit price of the parts for options 0013 and 0014.

Option: AEC-Q200

For moisture resistance test only.

Option to Order 0058:
Specific production process to withstand 85 °C/85 % at Pn/10

PACKAGING

ESD packaging available: waffle-pack, and plastic tape and reel (low conductivity). Paper tape available in standard (for size 0402) and upon request (ESD only) (for size 0603, 0805, and 1206).

SIZE	MOQ	NUMBER OF PIECES PER PACKAGE			TAPE WIDTH
		WAFFLE PACK 2" × 2"	TAPE AND REEL		
			MIN.	MAX.	
0302	250	340	100	5000	8 mm
0402	100				
0505		100		4000	
0603				5000	
0805				4000	
1005		221			
1206		140			
1505		60			
2010				2000	
2512		50			

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

See Part Numbering information to get the quantity desired by tape.

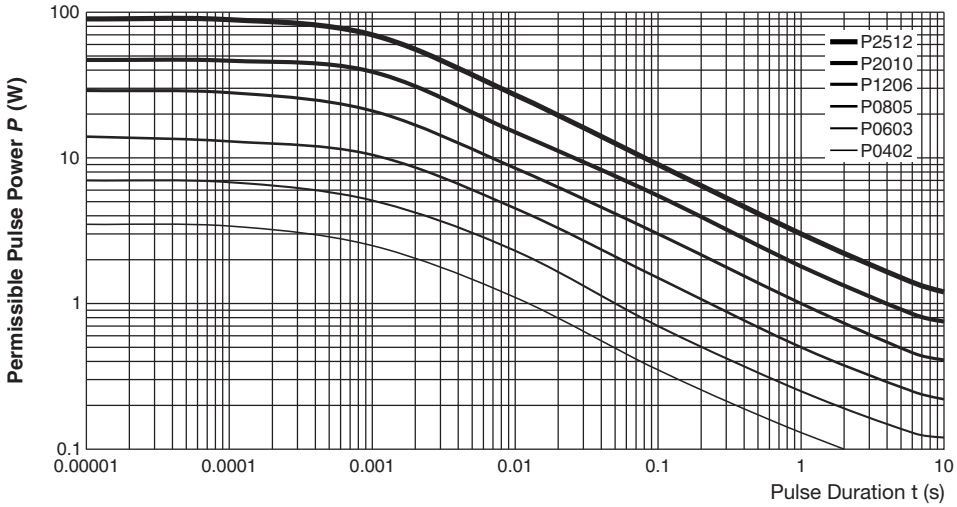
PERFORMANCE

TESTS	CONDITIONS	MIL OR CECC REQUIREMENTS	TYPICAL PERFORMANCES
Thermal shock	MIL-PRF-55342G MIL-STD-202 F-Method 107 F	± 0.05 %	± 0.02 %
Short time overload	MIL-PRF-55342G PARA 3.10.4.7.5	± 0.05 %	± 0.01 %
Low temperature operation	MIL-PRF-55342G PARA 3.9 and 4.7.4	± 0.05 %	± 0.01 %
Resistance to solder heat	MIL-PRF-55342G PARA 3.12, 4.7.7, 4.7.1.2	± 0.05 %	± 0.03 %
Moisture resistance	MIL-PRF-55342G PARA 3.13 and 4.7.8 MIL-STD-202 F-Method 106 E	± 0.10 %	± 0.01 %
	CECC 56 days/40 °C/93 % RH	± 0.10 %	± 0.01 %
	AEC-Q200 (1) 85 °C/85 % RH/Pn/10, 1000 h	± 0.5 % + 0.05 Ω	Max. < 0.3 % + 0.05 Ω
High temperature	MIL-PRF-55342G PARA 3.11 and 4.7.6	± 0.05 %	± 0.05 %
Load life	MIL-PRF-55342G 8000 h Pn at 70 °C MIL-STD-202 F-Method 108 A	± 0.5 %	± 0.1 % (2)

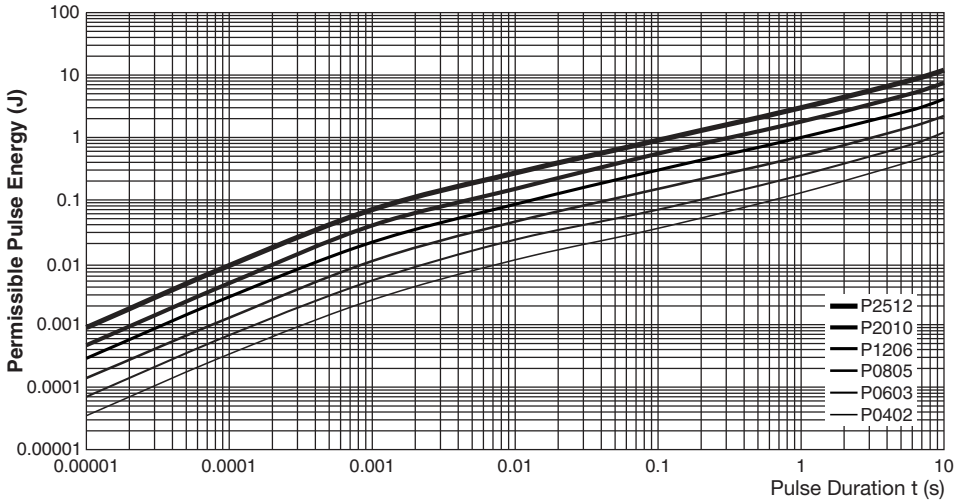
Notes

(1) Option to order 0058.
(2) Typical drift ± 0.02 % at Pd.

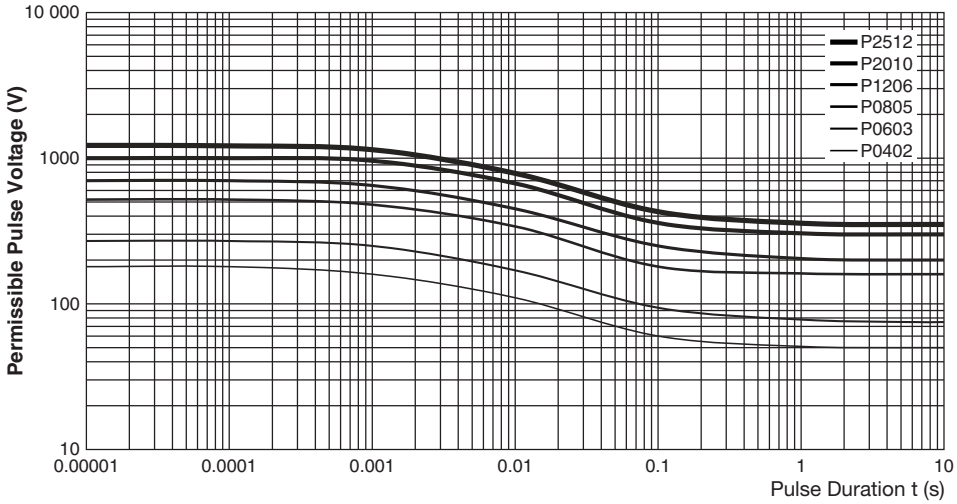
Maximum permissible pulse load P_i max. for single pulse (1)



Energy for single pulse (1)



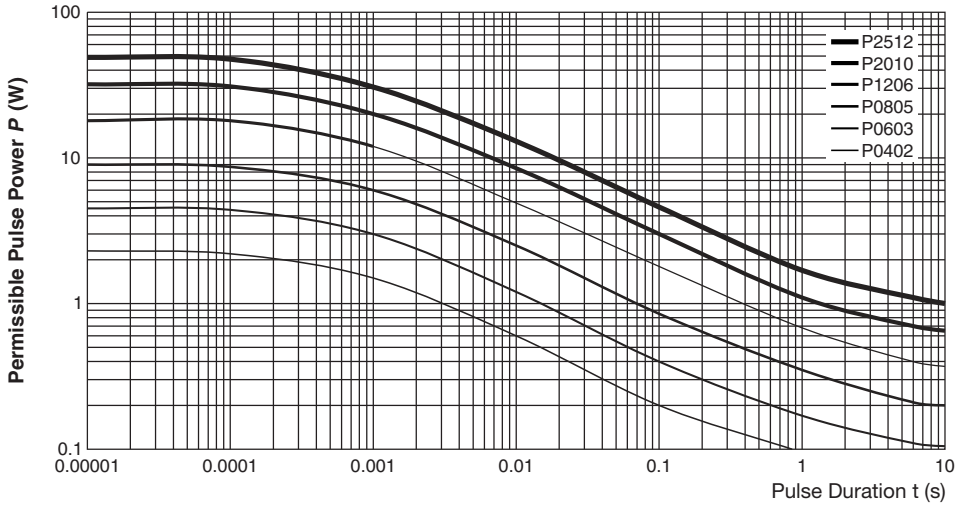
Maximum permissible pulse voltage U_i max. for single pulse (1)



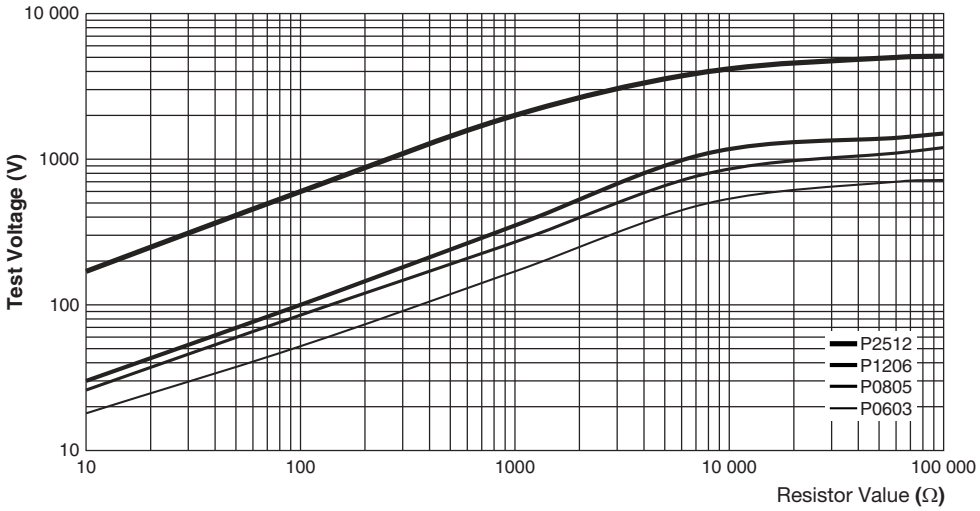
Note

(1) One should apply the datas mentioned on the 3 curves together to get the right performances.

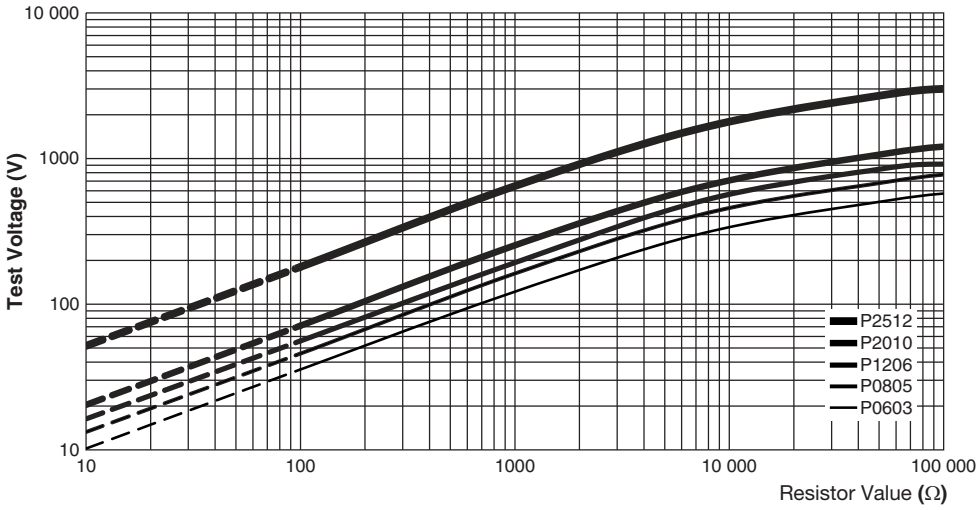
Maximum permissible pulse load P_l max.



1.2/50 µs lightning surge



10/700 µs lightning surge



GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: P0505Y1003BBT0999

P	0	5	0	5	Y	1	0	0	3	B	B	T		9	9	9

GLOBAL MODEL	SIZE	TCR	VALUE	TOLERANCE	TERMINATION	PACKAGING	OPTION
P	**0302** **0402** **0505** **0603** **0805** **1005** **1206** **1505** **2010** **2512**	**K** = ± 100 ppm/°C **H** = ± 50 ppm/°C **E** = ± 25 ppm/°C **Y** = ± 10 ppm/°C **Z** = ± 5 ppm (0.70 °C) **C** = ± 5 ppm (- 55 °C; + 155 °C)	The first three digits are significant figures and the last digit specifies the number of zeros to follow, R designates decimal point 10R0 = 10 Ω 3901 = 3900 Ω 1004 = 1 MΩ	**L** = ± 0.01 % **P** = ± 0.02 % **W** = ± 0.05 % **B** = ± 0.1 % **C** = ± 0.25 % **D** = ± 0.5 % **F** = ± 1 % **G** = ± 2 % **J** = ± 5 %	**B**: SnPb over nickel barrier **N**: SnAg over nickel barrier **G**: Gold over nickel barrier **B**: Lead bearing version **N** and **G**: Lead (Pb)-free/RoHS version	For more information see "Codification of packaging" table	From 1 to 3 digits, leave blank if no option

Historical Part Number examples:

P1206Y1001LNT100 (tapes of 100 pieces)
P1206H7151FBT250 (tapes of 250 pieces)
P1206Y1503WNT1K032 (tapes of 1000 pieces and option 32)
P1206Y2372BG (waffle pack)

Historical part numbers are not recommended, but can still be used for ordering.

CODIFICATION OF PACKAGING

CODE 18	PACKAGING
WAFFLE PACK	
W	100 min., 1 mult
WA	100 min., 100 mult (available only in size 1206)
PLASTIC TAPE (in standard for all sizes except 0402)	
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)
PAPER TAPE (Available for 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	1000 min., 1000 mult
PE	2500min., 2500 mult
PF	Full tape (quantity depending on size of chips)

FAST TRACK SERVICE

Vishay Sfernice offers fast track service - For conditions and availability please contact you Customer Service Representative.

P_{TRIM}

Chips ready to be trimmed available. Please consult Vishay Sfernice.

Notes

- For CECC qualified, see RV datasheet (www.vishay.com/doc?60022)
- For ESCC qualified, see PHR datasheet (www.vishay.com/doc?53037) or PFRR datasheet (www.vishay.com/doc?53046)
- For High Temperature (230 °C), see PHT datasheet (www.vishay.com/doc?53050)
- For Strap (0 Ω), see PZR datasheet (www.vishay.com/doc?53053)

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, “Vishay”), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay’s knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer’s responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer’s technical experts. Product specifications do not expand or otherwise modify Vishay’s terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Vishay:

P0603H1001BBT P0402Y3001BBW P0402Y6001BBW P0505K1001JBT P0505K3010FBT P0505K39R2FBT P0603E1000BBT P0603E2001BBT P0603E5001BBW P0603E50R0BBT P0603E8001BBT P0603H2211BBT P0603H3091BBT P0603H4021BBT P0603K45R3FBW P0805E10R0BBT P0805E6400BBT P0805E80R0BBT P0805H2003BBT P0805H2004BNW P0805H4641BBT P0805H9340BBT P0805K1872BBT P0805K2292BBT P0805K3091BBT P0805K3122BBT P0805K4172BBT P0805K6572BBT P0805K6901BBT P0805K7771BBT P0805K8162DBT P0805Y7501LBT P1005E5113BBW P1005Y5101FBT P1010E50R0BBT P1206H1005FBW P1206H1023BBT P1206H2552BBT P1206H3243BBT P1206H3833BBT P1206H6044BNW P1206K1005FBW P1206Y1001PBT P1206Y1002FBT P1206Y1002WBT P1206Y1272WBT P1206Y1582WBT P1206Y6043FBW P2010E43R0BBW P2010H1001BBW P2010H2050BBW P2512E39R7BBT P1206E2213FBT P0603H1003FBT P1206Y4121PBT P0805Y1002PBT P2010H40R2BBW P0805H9340BBW P0603E5100BBT P0805E5492BBT P0805E8352BBT P0603K1002FBW P1206E5000BBW P0603H6651BBT P1005E5113BBT P0603E1500FBW P0603E1502FBW P0603E4701FBT P0603E49R9FBW P0805K75R0FBW P1206E4991FBT P1206K1000FBW P0805E 17K8 BB P0805E75R0BBW P1206Y2K123BBT P1206E1041BBT P0603E82R5BBT P0402E5361BBT P0402E1242BBT P1206K33R0FBT P0603Y1001BN P0603Y1002BN P0603Y1003BN P0603Y2001BN P0805Y1001BN P0805Y1002BN P0805Y1003BN P0805Y2001BN P1206Y1001BN P1206Y1002BN P1206Y1003BN P1206Y1004BN P1206Y2002BN P0402E3322BBT P0402E4022BBT P0603E49R9BB P1206E25R8DBT P0603E1022BBT P0603E1182BBT P0603E1622BBT