

Vishay Draloric

RoHS

HALOGEN FREE

GREEN

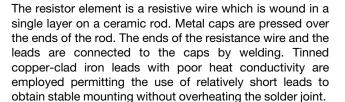
(5-2008)

Cemented Leaded Wirewound Precision Resistors



FEATURES

- High power dissipation in small volume
- Ideal for pulse application
- TCR ± 100 ppm/K
- Maximum permissible hot spot temperature is 275 °C
- · Lead (Pb)-free
- Tolerance 1 %
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>



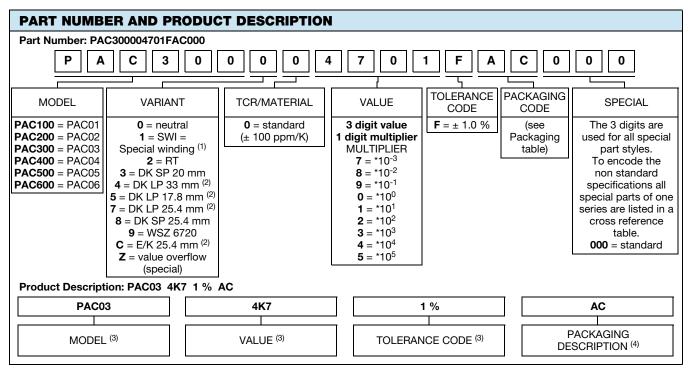
The resistor is coated with a green silicon cement which is not resistant to aggressive fluxes. The coating is non-inflammable, will not drip even at high overloads and is resistant to most commonly used cleaning solvents, in accordance with IEC 60068-2-45.

STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	POWER RATING P _{25 °C} W	LIMITING VOLTAGE U _{max} .	RESISTANCE RANGE $^{(2)}$ Ω	TOLERANCE ± %			
PAC01	1	√ <i>P</i> x <i>R</i>	0.10 to 2.2K	1			
PAC02 (1)	2	√ <i>P</i> x <i>R</i>	0.10 to 3.6K	1			
PAC03	3	√P x R	0.10 to 4.7K	1			
PAC04	4	√ <i>P</i> x <i>R</i>	0.10 to 8.2K	1			
PAC05	5	√ <i>P</i> x <i>R</i>	0.10 to 12K	1			
PAC06	6	√P x R	0.10 to 12K	1			

Notes

- For Pulse Diagrams see AC.. Series (www.vishay.com/doc?28730)
- (1) PAC02 WSZ: $P_{25 \, {}^{\circ}\text{C}} = 1.8 \text{ W}$
- $^{(2)}$ Resistance value to be selected for \pm 1 % tolerance from E24 and E96

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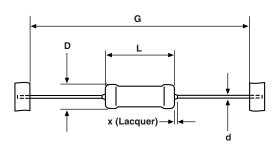
Notes

- (1) Special winding on request
- (2) Other dimensions on request
- (3) See "Part Number and Product Description"
- (4) See "Packaging Table"

PACKAGING TABLE									
	АММО			LOOSE		BLISTER			
MODEL	PIECES	PACK CODE	PACK. DESC.	PIECES	PACK CODE	PACK. DESC.	PIECES	PACK CODE	PACK. DESC.
PAC01	1000	A1	A1						
PAC01 DK/EK				500	LC	LC			
PAC01RT	2500	AE	AE						
PAC02	500	AC	AC						
PAC02 DK/EK				500	LC	LC			
PAC02 WSZ							1250	ВМ	ВМ
PAC03	500	AC	AC						
PAC03 DK/EK				500	LC	LC			
PAC04	500	AC	AC						
PAC04 DK/EK				500	LC	LC			
PAC05	500	AC	AC						
PAC05 DK/EK			•	250	LB	LB	1		
PAC06	500	AC	AC						
PAC06 DK/EK			•	250	LB	LB			



DIMENSIONS in millimeters [inches]



MODEL	D _{max.}	L _{max.}	d	X _{max.}	G	WEIGHT g PER UNIT
PAC01	4.3 [0.169]	11 [0.433]		2	63 ± 1 [2.480 ± 0.039]	0.52
PAC02	4.8 [0.189]	13 [0.512]		2	63 ± 1 [2.480 ± 0.039]	0.75
PAC03	5.5 [0.217]	16.5 [0.650]	0.8 ± 0.03	3	63 ± 1 [2.480 ± 0.039]	1.10
PAC04	7.5 [0.295]	18 [0.709]	[0.031 ± 0.001]	3	73 ± 1 [2.874 ± 0.039]	1.90
PAC05	7.5 [0.295]	26 [1.024]		3	73 ± 1 [2.874 ± 0.039]	2.60
PAC06	7.5 [0.295]	26 [1.024]		3	73 ± 1 [2.874 ± 0.039]	2.60

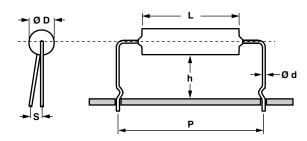
Note

• For packaging dimensions see: www.vishay.com/doc?28721



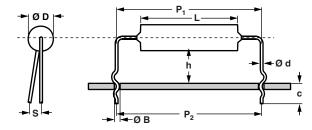
BENDING FORMS

KINK TYPE S = EK



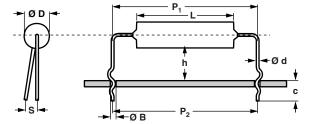
TYPE	Ød	Ø D _{max.}	L	h ± 1	P ± 1	S _{max.}
PAC01					17.8	
PAC02 - PAC04	0.8	(1)	(1)	8	25.4	2
PAC05 - PAC06					33.0	

DOUBLE KINK SP = DK SP



TYPE	ØD	Ø D _{max.}	L	h ± 1	P ₁ ± 1	P ₂ ± 3	S _{max.}	ØВ	С
PAC01					19.8	17.8			
PAC02 - PAC04	0.8	(1)	(1)	0	22.0	20.0		10.01	4.5 ± 1
PACU2 - PACU4	0.8	(.)	(.)	8	27.4	25.4	2	1.0 ± 0.1	4.5 ± 1
PAC05 - PAC06					35.0	33.0			

DOUBLE KINK LP = DK LP



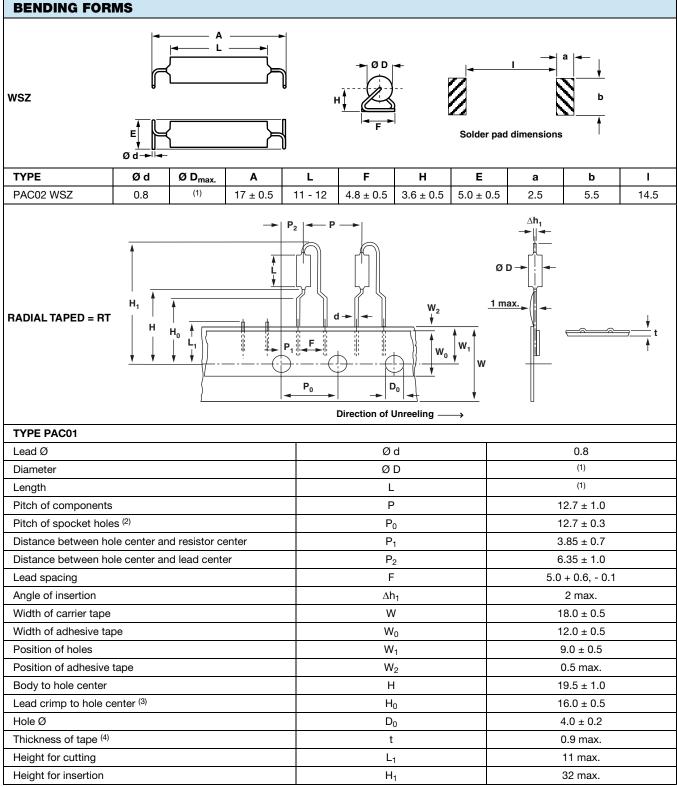
TYPE	ØD	Ø D _{max.}	L	h ± 1	P ₁ ± 1	P ₂ ± 3	S _{max} .	ØВ	С
PAC01 - PAC02					17.8	17.8			
PAC02 - PAC04	0.8	(1)	(1)	8	25.4	25.4	2	1.0 ± 0.1	4.5 ± 1
PAC05 - PAC06					33.0	33.0			

Note

⁽¹⁾ See table DIMENSIONS





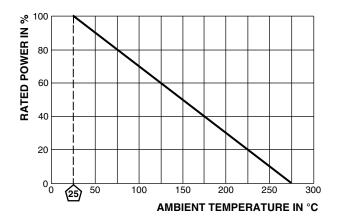


Notes

- (1) See table DIMENSIONS
- (2) Test over 10 holes 9 intervals P_0 12.7 x 9 = 114.3 ± 0.5
- (3) Parallelism, < 0.5 mm
- (4) Thickness of carrier tape: 0.55 mm ± 0.1

Revision: 14-Mar-17 5 Document Number: 28731





Maximum dissipation ($P_{max.}$) as a function of the ambient temperature (T_{amb})

PERFORMANCE	
TEST	PERMISSIBLE CHANGE
Climatic category (LCT/UCT/Days)	55/200/56
Climatic Sequence IEC 60115-1 4.23	$\Delta R = \pm (0.5 \% R + 0.05 \Omega)$
Damp Heat, Steady State, IEC 60115-1, 4.24 (40 ± 2) °C, 56 days, (93 ± 3) % RH	$\Delta R = \pm (1.0 \% R + 0.05 \Omega)$
Endurance at room temperature (116 % <i>P</i> ₇₀), 1000 h, IEC 60115-1, 4.25.2	$\Delta R = \pm (0.5 \% R + 0.05 \Omega)$
Storage, UCT, IEC 60115-1, 4.25.3 1000 h, 200 °C, no load	$\Delta R = \pm (1.0 \% R + 0.05 \Omega)$
Resistance to Soldering Heat, IEC 60115-1, 4.18 (260 ± 5) °C, (10 ± 1) s	$\Delta R = \pm (0.2 \% R + 0.05 \Omega)$
Robustness of Termination, IEC 60115-1, 4.16 10N	$\Delta R = \pm (0.1 \% R + 0.05 \Omega)$
Short Time Overload, IEC 60115-1, 4.13 10 x Rated Power for 5 s	$\Delta R = \pm (0.2 \% R + 0.05 \Omega)$



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HISTORICAL 12NC INFORMATION

- The resistors had a 12-digit ordering code staring with 2306 327
- The subsequent first digit indicated the resistor type and packaging.
- The remaining 4 digits indicated the resistance value:
- The first 3 digits indicated the resistance value.
- The last digit indicated the resistance decade in accordance with Resistance Decade table.

Resistance Decade

RESISTANCE DECADE	LAST DIGIT
0.10 to 0.976 Ω	7
1 to 9.76 Ω	8
10 to 97.6 Ω	9
100 to 976 Ω	1
1 to 9.76 kΩ	2
10 to 12 kΩ	3

Ordering Example

The ordering code for an PAC02, resistor value 47 Ω with \pm 1 % tolerance, supplied in ammopack of 500 units was: 2306 327 04709.

HISTORICAL 12NC - Resistor type and packaging								
	2306 327							
TYPE	BANDOLIER IN AMMOPACK							
ITPE	RADIAL	IAL STRAIGHT LEADS						
	2500 units	500 units	1000 units					
PAC01	RT ⁽¹⁾	-	2306 327 5					
PAC02	-	2306 327 0	-					
PAC03	-	2306 327 1	-					
PAC04	-	2306 327 2	-					
PAC05	-	2306 327 3	-					
PAC06	-	2306 327 4	-					

Note

⁽¹⁾ Radial parts with tin plated copper leads



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