Vishay BCcomponents



Cemented Wirewound Precision Resistors



The resistor element is a resistive wire which is wound in a single layer on a ceramic rod. Metal caps are pressed over the ends of the rod. The ends of the resistance wire and the leads are connected to the caps by welding. Tinned copper-clad iron leads with poor heat conductivity are employed permitting the use of relatively short leads to obtain stable mounting without overheating the solder joint.

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 %



ROHS

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 "MIL-STD-202E, method 215" and "IEC 60068-2-45".

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	<i>P</i> _{25 °C} W	TOLERANCE E24/E96 series ± %	LIMITING VOLTAGE V	RESISTANCE RANGE Ω TCR ± 100 ppm/k
PAC100	PAC01	1	1	√PxR	R10 - 2K2
PAC200	PAC02	2	1	√PxR	R10 - 3K6
PAC300	PAC03	3	1	√PxR	R10 - 4K7
PAC400	PAC04	4	1	√PxR	R10 - 8K2
PAC500	PAC05	5	1	√PxR	R10 - 10K
PAC600	PAC06	6	1	√PxR	R10 - 12K

^{*} For Pulse Diagrams see AC..series (28730)

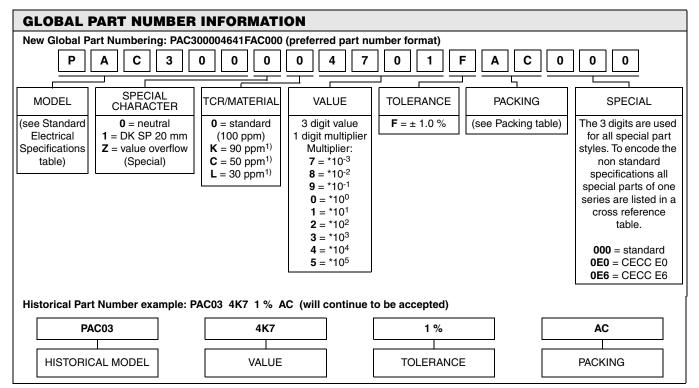
12NC ORDERING CODE INDICATING RESISTOR TYPE AND PACKAGING				
	ORDERING CODE 2306 327 BANDOLIER IN AMMOPACK			
TYPE				
	500 units	1 000 units		
PAC01	_1)	2306 327 5		
PAC02	2306 327 0	-		
PAC03	2306 327 1	-		
PAC04	2306 327 2	-		
PAC05	2306 327 3	-		
PAC06	2306 327 4	-		

Note

1. Radial taped version available on request. 2500 pcs Ammo packaging



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Note:

¹⁾ Is available request for specific

PACKING TABLE			
SAP	DESCRIPTION	TYPE	
A1	Bandolier in ammopack, 1000 pcs.	PAC01	
AC	Bandolier in ammopack, 500 pcs.	PAC02, PAC03, PAC04, PAC05, PAC06	
L1	Loose 1000 pcs.	PAC02	

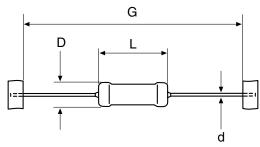
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DIMENSIONS



For packaging dimensions see separate packaging dimensions page.

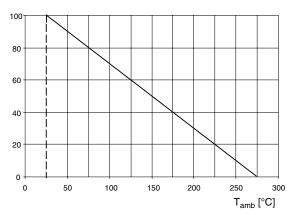
	DIMENSIONS in millimeters [inches]					
MODEL	D max	L max	d	G	WEIGHT g per 100 units	
PAC01	4.3 [0.169]	10 [0.394]		63 ± 1 [2.480 ± 0.039]	52	
PAC02	4.8 [0.189]	13 [0.512]		63 ± 1 [2.480 ± 0.039]	75	
PAC03	5.5 [0.217]	17 [0.669]	0.8 ± 0.03 $[0.031 \pm 0.001]$	63 ± 1 [2.480 ± 0.039]	110	
PAC04	7.5 [0.295]	17 [0.669]		73 ± 1 [2.874 ± 0.039]	190	
PAC05	7.5 [0.295]	25 [0.984]		73 ± 1 [2.874 ± 0.039]	260	
PAC06	7.5 [0.295]	25 [0.984]		73 ± 1 [2.874 ± 0.039]	260	

PERFORMANCE		
TEST	TEST RESULTS	
Climatic category	55/200/56	
Damp heat, steady state 56d	$\frac{\Delta R}{R}$ max : ± 1 % + 0.05 Ω	
Storage 1000 hours, 200 °C, no load	$\frac{\Delta R}{R}$ max : ± 1 % + 0.05 Ω	
Climatic sequence	$\frac{\Delta R}{R}$ max : ± 0.5 % + 0.05 Ω	
Load life 1000 h	$\frac{\Delta R}{R}$ max : ± 0.5 % + 0.05 Ω	
Resistance to soldering heat	$\frac{\Delta R}{R}$ max : ± 0.2 % + 0.05 Ω	
Robustness of termination, 10N	$\frac{\Delta R}{R}$ max : ± 0.1 % + 0.05 Ω	
Short time overload, 10 x rated power x 5 sec.	$\frac{\Delta R}{R}$ max : ± 0.2 % + 0.05 Ω	

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Cemented Wirewound Precision



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

ORDERING INFORMATION

Ordering Code (12NC)

- The resistors have a 12-digit ordering code staring with 2306 327
- The subsequent first digit indicates the resistor type and packaging; see the 12NC Ordering Code table.
- The remaining 4 digits indicate the resistance value:
 - The first 3 digits indicate the resistance value.
 - The last digit indicates the resistance decade in accordance with the 12NC Indicating Resistance Decade table.

Last Digit of 12NC Indicating 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 is: 2306 327 04709.

Product specifications deviating from the standard values are available on request.

Legal Disclaimer Notice



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