Precision Electronic Components Mfg. Co.

Premium Grade Components



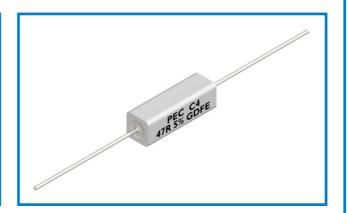
For Original, Innovative and Cost-Effective Solutions to demanding Specifications

Square Ceramic Cased, Axial

Series PCA

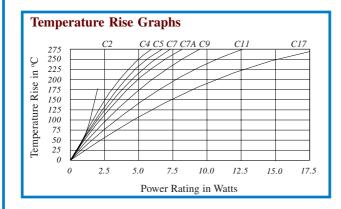
Key Features

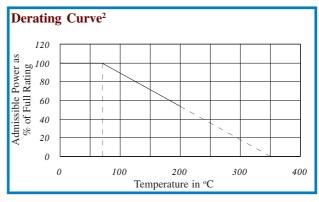
- 4W to 17W Power Rating.
- Square Ceramic Encased.
- Low Surface Temperature.
- Non-Flammable Construction.
- High Insulation Resistance.
- · High Surge Versions.
- · Performance Reference Standards.
 - IEC 115-1

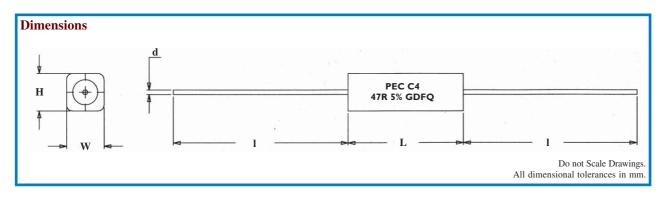


Electrical Specifications and Environmental Characteristics Ohmic Range Type Power **Additional Specifications** @70°C Ohms Watts Values $\leq 10\Omega \pm 10\%$, $>10\Omega \pm 5\%$; On request $\pm 2\%$. Min Max Tolerance 0R05 3K9 Applicable E-Series E24(5%), E12(10%); Other values on request 0R1 C4 4 6K8 Derating From 70°C to 350°C 5 0R33 C5 10K TCR -Low Values, IEC 115-1, Cls. 4.8.4.2 and 2.2.20.2 450ppm/°C (Max) **C**7 7 0R47 22K TCR -Mid Values & High Values Std : <150ppm/°C; On Request : 50ppm/°C, 20ppm/°C 0R33 -55°C to 350°C C7A 7 10K Temperature Range C9 9 0R47 22K Climatic Category 55 / 200 / 56 C11 11 0R82 22K Solderability 95% Coverage MIL Std. 202F, Test 208 Per IEC 115-1, Clause 4.30 (Test XA of IEC 68-2-45) C17 17 1R5 27K Solvent Resistance

Performance Characteristics						
Test Methods	Test Conditions	Test Limits				
Insulation Resistance	At 500V DC, IEC 115-1, Clauses-4.6, 2.2.19	10000 ΜΩ				
Dielectric Strength	2000V peak for 1 min, IEC 115-1, Clause 2.2.17	No Break Down				
Terminal Strength	Tensile Test, IEC 115-1, Clause 4.16, Test Ua ₁ , IEC 68-2-21	>50N				
Solderability	As per MIL-STD 202F, Test 208; IEC 115-1, Clause 4.17.3	95% Coverage				
Endurance at Rated Temperature	Rated Power @70°C(1.5hrs ON, 0.5hrs OFF), IEC 115-1, Clause 4.25	$\Delta R < 5\% + 0R05$				
Damp Heat Steady State	90-95% RH @40°C Ambient Temp. for 56 days, IEC 115-1, Clause 4.24	$\Delta R < 5\% + 0R05$				
Resistance to Soldering Heat	10 Seconds Dip in Solder Bath at 260°C, IEC 115-1, Clause 4.18	$\Delta R < 1\% + 0R05$				
Climatic Sequence	As per IEC 115-1, Clause 4.23	$\Delta R < 5\% + 0R05$				







Dimensions (mm)							
Туре	L	W	Н	I	d		
		± 0.5	± 0.5	± 3.0	± 0.05		
C2	15 ± 1.0	6.4	6.4	36.0	0.80		
C4	20 ± 1.0	6.4	6.4	36.0	0.80		
C5	25 ± 1.0	6.4	6.4	36.0	0.80		
C7	38 ± 1.0	6.4	6.4	36.0	0.80		
C7A	25 ± 1.0	9.0	9.0	36.0	0.80		
C9	38 ± 1.0	9.0	9.0	36.0	0.80		
C11	50 ± 1.5	9.0	9.0	36.0	0.80		
C17	75 ± 2.0	9.0	9.0	36.0	0.80		

Dimensions (Inches)							
Туре	L	W	Н	I	d		
		± 0.02	± 0.02	± 0.118	± 0.002		
C2	0.590 ± 0.039	0.251	0.251	1.417	0.0314		
C4	0.787 ± 0.039	0.251	0.251	1.417	0.0314		
C5	0.984 ± 0.039	0.251	0.251	1.417	0.0314		
C7	1.496 ± 0.039	0.251	0.251	1.417	0.0314		
C7A	0.984 ± 0.039	0.354	0.354	1.417	0.0314		
C9	1.496 ± 0.039	0.354	0.354	1.417	0.0314		
C11	1.968 ± 0.059	0.354	0.354	1.417	0.0314		
C17	2.952 ± 0.078	0.354	0.354	1.417	0.0314		

To Order - Please Specify										
PEC Type.	Ohmic Value		Tolerance		Packing Style*		Release Condition	Standard / Non-Std. Leads		TCR
C4	0.1 Ohm 1 Ohm 1 KOhm 10.7 KOhm	» 0R1 / R10 » 1R0 » 1K0 » 10K7	2% 5% 10%	» G » J » K	Bulk Tape & Reel Ammo	» B » T » A	Commercial » X	Standard 38mm / 1.5" Others Please Speci	» M	Standard » S Others » M Please Specify

Notes

- 1 On request we undertake tests for Batch Acceptance to a specified Reference Standard.
- 2 The Derating Curve specifies the maximum allowable Power at a particular ambient temperature while ensuring that the maximum surface temperature remains within the designed limit.
- 3 When the Resistor is subjected to a Pulse Load, please ensure that the *average* Power dissipated remains below the rated Power specified
- 4 Resistor performance with Pulse Loads will have to be application tested. Please utilise our Pulse Application Questionnaire for selecting a suitable type or for requesting any design-in assistance from us.

Marketing Director John A Stooke

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Global Sales Co-ordinator

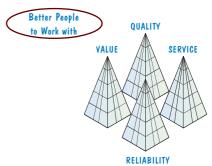
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To offer our products through regionally trusted services we have territory-wise and product-wise distribution, franchising, resale and private brand labelling arrangements. For cost-effective and enduring solutions to your needs, for tailored stocking/delivery scheduling, logistics and administrative support, please do not hesitate to contact us or any of our associated representatives, coordinators and product specialists.



Thoughtful engineering and production by a well trained work-force, backed by strong design and development skills, enable us to maintain a level of manufacture and service recognised internationally.

At PEC we offer well-tuned customised support.