

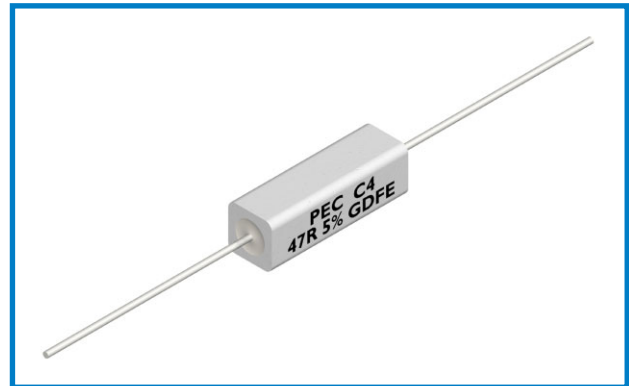


Square Ceramic Cased, Axial

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



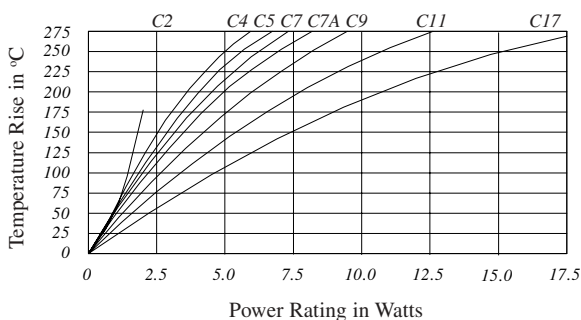
Electrical Specifications and Environmental Characteristics

Type	Power @70°C Watts	Ohmic Range Ohms		Additional Specifications	
		Min	Max	Tolerance	Values $\leq 10\Omega \pm 10\%$, $>10\Omega \pm 5\%$; On request $\pm 2\%$.
C2	2	0R05	3K9	Applicable E-Series	E24(5%), E12(10%); Other values on request
C4	4	0R1	6K8	Derating	From 70°C to 350°C
C5	5	0R33	10K	TCR -Low Values, IEC 115-1, Cls. 4.8.4.2 and 2.2.20.2	450ppm/°C (Max)
C7	7	0R47	22K	TCR -Mid Values & High Values	Std : $<150\text{ppm}/^\circ\text{C}$; On Request : $50\text{ppm}/^\circ\text{C}$, $20\text{ppm}/^\circ\text{C}$
C7A	7	0R33	10K	Temperature Range	-55°C to 350°C
C9	9	0R47	22K	Climatic Category	55 / 200 / 56
C11	11	0R82	22K	Solderability	95% Coverage MIL Std. 202F, Test 208
C17	17	1R5	27K	Solvent Resistance	Per IEC 115-1, Clause 4.30 (Test XA of IEC 68-2-45)

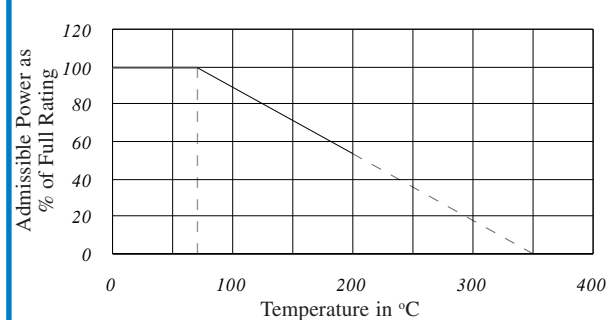
Performance Characteristics

Test Methods	Test Conditions	Test Limits
Insulation Resistance	At 500V DC, IEC 115-1, Clauses-4.6, 2.2.19	10000 M Ω
Dielectric Strength	2000Vpeak 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	$>50\text{N}$
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	$\Delta R < 5\% + 0R05$

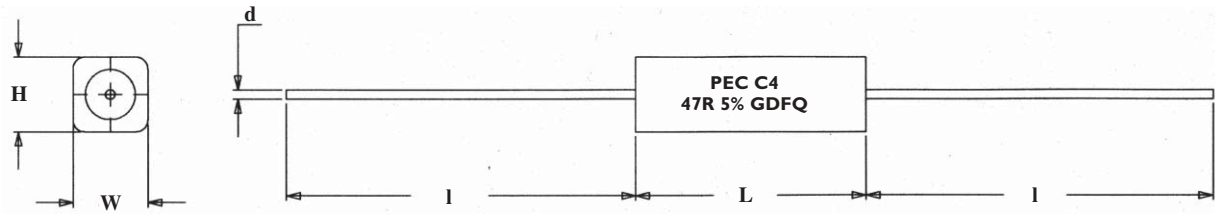
Temperature Rise Graphs



Derating Curve²



Dimensions



Do not Scale Drawings.
All dimensional tolerances in mm.

Dimensions (mm)

Type	L	W	H	I	d
		± 0.5	± 0.5		
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)

Type	L	W	H	I	d
		± 0.02	± 0.02		
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 > 0R1 / R10	2% > G	Bulk > B	Commercial > X	Standard > S 38mm / 1.5" > L Others > M Please Specify	Standard > S Others > M Please Specify
	1 Ohm > 1R0	5% > J	Tape & Reel > T			
	1 KOhm > 1K0	10% > K	Ammo > A			
	10.7 KOhm > 10K7					

A Sample Part No.: **C4 47R JBXSS**

* C2, C4, C5 can be supplied in Style B/T/A & All other types can be only supplied in Style B.

Notes

- On request we undertake tests for Batch Acceptance to a specified Reference Standard.
- 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.
- When the Resistor is subjected to a Pulse Load, please ensure that the *average* Power dissipated remains below the rated Power specified.
- 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.

International

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Factory Coordination

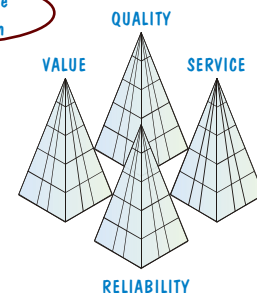
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to Work with



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.