Precision Electronic Components Mfg. Co.

Premium Grade Components



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

Vitreous Enamelled, Axial Series PVAB

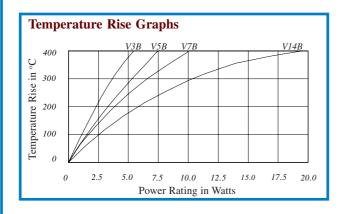
Key Features

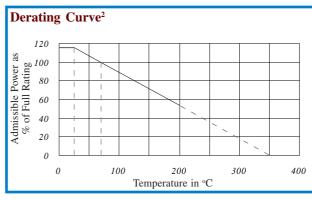
- 3W to 12W Power Rating.
- All Welded Construction.
- Non-Flammable Brown Enamel Coating.
- · High Overload and Pulse Handling Capability.
- · Suitable for High Speed Lead Forming Machines.
- Reference Standards.
 - JSS 50402 [RFHT-1 STYLES 2.5 to 12]
 - MIL-R-26 [Char V] IEC 115 1
 - CECC 40201-001



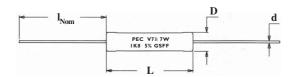
Electrical Specifications and Environmental Characteristics											
Туре	Pov	wer	Voltage	Ohmic	Range	Re	f. Standard	ls ¹	Additional Specifications		
	@25°C	@70°C	Max	9)	MIL-R-26	CECC	JSS			
	Watts	Watts	Volts	Min	Max		40201-001	RFHT-1	TCR	Std. < +150 ppm/°C, Typ. < +75 ppm/°C	
V3B	3	2.6	100	0R1	10K	RW69	RB59	2.5	Derating	From 25°C to 350°C, Mil Char 'V'	
V5B	5	4.3	160	0R1	20K		RB61	-	Climatic Cat.	55 / 200 / 56	
V7B	7	6	200	0R1	22K	RW74	RB57	6	Ambient	-55°C to 200°C	
V10B	10	9	720	0R1	68K	RW68	RB58		Load Life	ΔR < 5%	
V14B	12	10	750	0R1	100K		-	12	Solderability	95% Coverage - MIL Std. 202F, Test 208	

Performance Characteristics								
Test Methods	Test Conditions	Test Limits						
Short Term Overload	10 × Rated Power for 5 seconds	$\Delta R < 1\% + 0R05$						
Endurance at Room Temperature	Rated Power @25°C (1.5 hrs ON, 0.5 hrs OFF)	$\Delta R < 5\% + 0R05$						
Thermal Shock (Rapid Change of Temp.)	5 Cycles, -55°C to 200°C	$\Delta R < 1\% + 0R05$						
Robustness of Terminations	As per Clause C1-4.14 of BS-CECC 40201-002	$\Delta R < 1\% + 0R05$						
Resistance to Soldering Heat	10 Seconds dip in Solder Bath at 260°C	$\Delta R < 1\% + 0R05$						
Vibration	Freq: 10-500Hz, Amplitude: 0.75mm/10g, Accln.: 6hrs in each Axis	$\Delta R < 1\% + 0R05$						
Bump Test	4000 Bumps at 40g Acceleration (Accln.)	$\Delta R < 1\% + 0R05$						
Long Term Damp Heat	90% - 95% RH @40°C Ambient Temperature for 56 days	$\Delta R < 5\% + 0R05$						
Climatic Sequence	As per Clause C1 - 4.20.8 of BS-CECC 40201-002	$\Delta R < 5\% + 0R05$						
Temperature Rise	Max. Surface Tempr. Rise @Rated Power and @25°C ambient	T < 350°C						





Dimensions



- 1. Resistance values are as measured between points at a distance of 10mm from the ends of the Resistor's body.
- 2. The min. bend radius recommended for the lead at either end is 1mm. It is preferable to bend it at a distance of 2mm or more from the end of the body.

	— I _{Nom} —		D	d _
P _{±0.5}		PEC V7B 7W IK8 5% GSFF		A
1		PEC V7B 7W I K8 5% GSFF	<u> </u>	
-		—— L1 _{±1} –		

Dimensions (mm										
Туре	L	D	l***	d	P	L1				
	Max	Max	Nom	+0.05 mm						
	IVIAA	IVIAA	Nom	-0.05 mm						
V3B	12.7	5.6	38.1	0.813	10.0	88.0				
V5B	23.8	7.0	38.1	0.813	10.0	98.0				
V7B	23.8	8.7	38.1	0.813	10.0	97.0				
V10B	46.8	10.0	38.1	0.813	NA	NA				
V14B	53.5	8.0	38.1	0.813	NA	NA				

Dimensions (Inches									
Type L		D	l****	d	P	L1			
Max		Max	Nom	+0.002"					
	IVIAA	IVIAA	Nom	-0.002"					
V3B	0.500	0.220	1.50	0.032	0.394	2.56			
V5B	0.937	0.276	1.50	0.032	0.394	2.95			
V7B	0.937	0.343	1.50	0.032	0.394	2.91			
V10B	1.844	0.394	1.50	0.032	NA	NA			
V14B	2.106	0.315	1.50	0.032	NA	NA			

To Order - Please Specify

PEC Type.	Ohmic Value	Tolerance	Packing Style *	Release Condition	Standard / Non-Std. Leads
V3B	0.1 Ohm » 0R1 / R10 1 Ohm » 1R0 1 KOhm » 1K0 10.7 KOhm » 10K7	1% » F 2% » G 5% » J 10% » K	Bulk » B Tape&Reel » T Ammo » A Rondo » R	Commercial » X CECC » F JSS » J BS-CECC » B	Standard » S Others » M

A Sample Part No: V3B 1K0 JTXS

* V3B,V5B,V7B can be supplied in Style B/T/A & V10B,V14B can be supplied in Style R only

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.
- 3 When the Resistor is subjected to a Pulse Load, please ensure that the average Power dissipated remains below the rated Power speci-
- 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

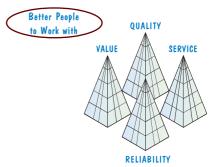
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To offer our products through regionally trusted services we have territory-wise and product-wise distribution, franchising, resale and private brand labelling arrangements. For cost-effective and enduring solutions to your needs, for tailored stocking/delivery 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.