

JAV series / Vitreous Enamelled Axial,



特徴

- ・定格電力 3W ~ 14W
- ・溶接構造
- ・不燃性エナメルコート
- ・高負荷、パルス用途に対応
- ・自動機の高速度リードFormingに適應
- ・参考規格
- ・BS CECC 40201-002 (BSE9114N001)
- ・CECC 40201-001
- ・JSS 50402 [RFHT-1 STYLES 2.5 to 12]

Features

- ・R005 to R051 Resistance Values.
- ・Negligible Inductance.
- ・Suitable For Current Sensing.
- ・Suitable For High Frequency Circuits.
- ・High Insulation Resistance.
- ・Square Ceramic Case.
- ・High Quality Welded Joints.

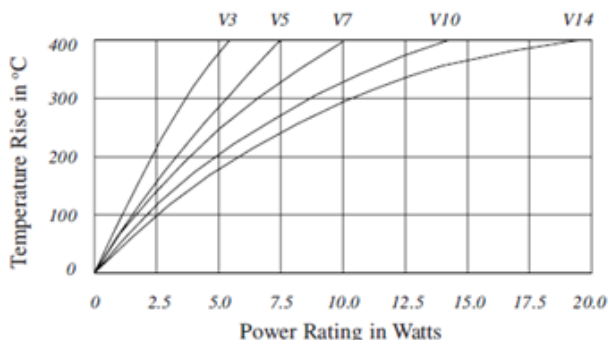
仕様・環境特性 / Electrical Specifications and Environmental Characteristics

Type	Power	Power	Voltage Max	Ohmic Range		Ref. Standards*			TCR	Additional Specifications
	@ 25 Watts	@ 70 Watts		In Ohm	Min	Max	BS-CECC 40201-002	CECC 40201-001		
JA V3	3	2.6	100	0R1	10K	JB	RB59	2.5	Derating	From 25 to 350
JA V5	5	4.3	160	0R1	20K	HB	RB61	-	Climatic Cat.	55 / 200 / 56
JA V7	7	6	200	0R1	22K	KB	RB57	6	Ambient	-55 to 200
JA V10	10	9	500	0R1	68K	LB	RB60	9	Load Life	ΔR < 5%
JA V14	14	12	750	0R1	100K	MB	-	12	Solderability	95% Coverage - MIL Std. 202F, Test 208

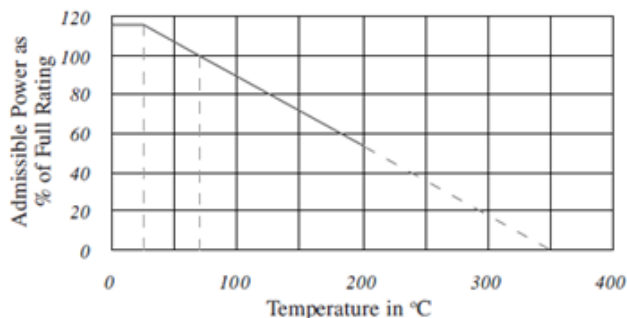
性能 / Performance characteristics

Test Methods	Test Conditions	Test Limits
Short Term Over load	10 × Rated Power for 5 seconds	ΔR < 1% + 0R05
Endurance at Room Temperature	Rated Power @25 °C (1.5 hrs ON, 0.5 hrs OFF)	ΔR < 5% + 0R05
Thermal Shock (Rapid Change of Temp.)	5 Cycles, -55 °C to 200 °C	ΔR < 1% + 0R05
Robustness of Terminations	As per Clause C1-4.14 of BS-CECC 40201-002	ΔR < 1% + 0R05
Resistance to Soldering Heat	10 Seconds dip in Solder Bath at 260 °C	ΔR < 1% + 0R05
Vibration	Freq: 10-500Hz, Amplitude: 0.75mm/10g, Accln.: 6hrs in each Axis	ΔR < 1% + 0R05
Bump Test	4000 Bumps at 40g Acceleration (Accln.)	ΔR < 1% + 0R05
Long Term Damp Heat	90% - 95% RH @ 40 °C Ambient Temperature for 56 days	ΔR < 5% + 0R05
Climatic Sequence	As per Clause C1 - 4.20.8 of BS-CECC 40201-002	ΔR < 5% + 0R05
Temperature Rise	Max. Surface Temperature Rise @Rated Power and @25 °C ambient	T < 380 °C

Temperature Rise Graphs

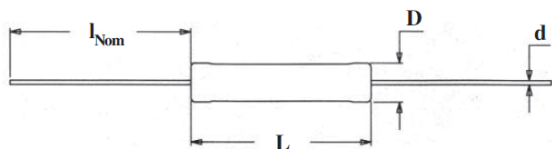


Derating Curve²



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Dimensions

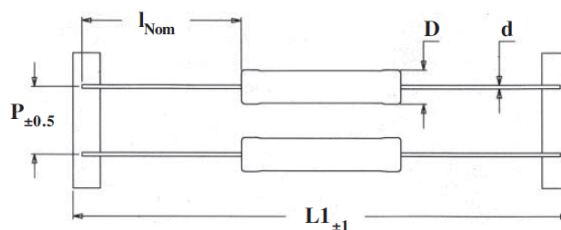


- Resistance values are as measured between points at a distance of 10mm from the ends of the Resistor's body.
- The min. bend radius recommended for the lead at either end is 1mm. It is preferable to bend it at a distance of 2mm or more from the end of the body.

In mm

Type	L	D	I***	d	P	L1
	Max	Max	Nom	+0.08 - 0.05		
JA V3	12.7	5.6	26.5	0.8	10	65
JA V5	23	7.0	26.5	0.8	10	75
JA V7	22.2	8	26.5	0.8	10	74
JA V10	38.1	8	35	0.8	NA	NA
JA V14	53.5	8	35	0.8		

Tape and Reel Specifications



Do not Scale Drawings.
All dimensional tolerances in mm.

In inch

Type	L	D	I***	d	P	L1
	Max	Max	Nom	+0.00315 -0.00197		
JA V3	0.5	0.22	1.043	0.0315	0.394	2.559
JA V5	0.906	0.276	1.043	0.0315	0.394	2.953
JA V7	0.874	0.315	1.043	0.0315	0.394	2.913
JA V10	1.5	0.315	1.378	0.0315	NA	NA
JA V14	2.106	0.315	1.378	0.0315		

品番構成 / Ordering Code

Type	Ohmic Value	Tolerance	Packing Style *	Release Condition	Standard / Non-Std. Leads
JAV3	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 : X 38mm / 1.5" : F Others : M

A Sample Part No.: JAV3 1K0 JTXS

* V3,V5,V7 can be supplied in Style B/T/A & V10,V14 can be only supplied in Style R.

注意事項 / Note

- 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.