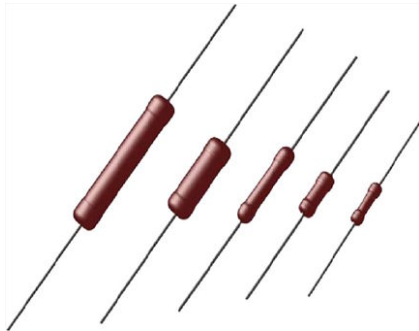


Wirewound Resistors, Commercial Power, Silicone Coated, Axial Lead


FEATURES

- High temperature coating (> 350 °C)
- All welded construction
- Available with “vitreous like appearance” coating as ALVR
- Available in non-inductive styles with Ayrton-Perry winding for lowest reactive components, special “NI”
- Compliant to RoHS Directive 2011/65/EU


Note

** Please see document “Vishay Material Category Policy”: www.vishay.com/doc?999902

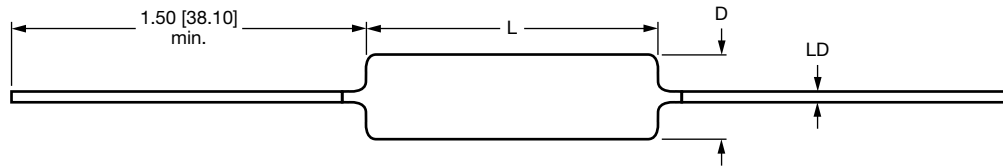
STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING ⁽¹⁾ $P_{25\text{ }^\circ\text{C W}}$ CHARACTERISTIC U + 250 °C	POWER RATING ⁽¹⁾ $P_{25\text{ }^\circ\text{C W}}$ CHARACTERISTIC V + 350 °C	RESISTANCE RANGE Ω	TOLERANCE ⁽²⁾ %	WEIGHT (typical) g
ALSR01	ALSR-1	1	-	0.10 to 6.37K	1, 3, 5, 10	0.27
ALVR01	ALVR-1	1	-	0.10 to 6.37K	1, 3, 5, 10	0.27
ALSR03	ALSR-3	3	-	0.10 to 12K	1, 3, 5, 10	0.68
ALVR03	ALVR-3	3	-	0.10 to 12K	1, 3, 5, 10	0.68
ALSR5A	ALSR-5A	4	5	0.10 to 40.3K	1, 3, 5, 10	2.1
ALVR5A	ALVR-5A	4	5	0.10 to 40.3K	1, 3, 5, 10	2.1
ALSR05	ALSR-5	5	7	0.10 to 58.5K	1, 3, 5, 10	3.2
ALVR05	ALVR-5	5	7	0.10 to 58.5K	1, 3, 5, 10	3.2
ALSR10	ALSR-10	7	10	0.10 to 92K	1, 3, 5, 10	4.9
ALVR10	ALVR-10	7	10	0.10 to 92K	1, 3, 5, 10	4.9

Notes

- (1) Vishay Huntington ALSR/ALVR models have two power ratings depending on operation temperature and stability requirements. Models not available for characteristic V are: ALSR01, ALVR01, ALSR03, and ALVR03
- (2) Other tolerances may be available, contact factory

GLOBAL PART NUMBER INFORMATION				
Global Part Numbering example: ALSR0325R00FE12NI				
A	L	S	R	0 3 2 5 R 0 0 F E 1 2 N I
GLOBAL MODEL (6 digits) <small>(See Standard Electrical Specifications Global Model column for options)</small>	VALUE (5 digits) R = Decimal K = Thousand 1R500 = 1.5 Ω 1K500 = 1.5 k Ω	TOLERANCE (1 digit) F = $\pm 1.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10.0\%$	PACKAGING (3 digits) E07 = Tape/reel (ALSR5A/ALVR5A, ALSR05/ALVR05) E08 = Tape/reel (ALSR01/ALVR01) E29 = Tape/reel (ALSR10/ALVR10) E48 = Tape/reel (ALSR03/ALVR03) E12 = Bulk, 100 pc boxes	SPECIAL (up to 2 digits) (Dash Number) From 1 to 99 as applicable NI = Non inductive
Historical Part Number example: ALSR-3-25-1 %-NI				
ALSR-3	25 Ω	1 %	NI	
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE	SPECIAL	

DIMENSIONS in inches [millimeters]



GLOBAL MODEL	DIMENSIONS in inches [millimeters]		
	L ± 0.032 [0.813]	D ± 0.032 [0.813]	LD ± 0.002 [0.051]
ALSR01	0.385 [9.8]	0.110 [2.8]	0.020 [0.5]
ALVR01	0.437 [11.1]	0.125 [3.2]	0.020 [0.5]
ALSR03	0.530 [13.5]	0.200 [5.1]	0.032 [0.8]
ALVR03	0.563 [14.3]	0.218 [5.5]	0.032 [0.8]
ALSR5A	0.937 [23.8]	0.200 [5.1]	0.032 [0.8]
ALVR5A	1.031 [26.2]	0.218 [5.5]	0.032 [0.8]
ALSR05	0.937 [23.8]	0.312 [7.9]	0.032 [0.8]
ALVR05	1.031 [26.2]	0.343 [8.7]	0.032 [0.8]
ALSR10	1.800 [45.7]	0.312 [7.9]	0.032 [0.8]
ALVR10	1.843 [46.8]	0.343 [8.7]	0.032 [0.8]

MATERIAL SPECIFICATIONS

Element: Copper-nickel alloy or nickel-chrome alloy, depending on resistance value

Core: Ceramic: Steatite or alumina, depending on physical size

End Caps: Stainless steel

Coating: Special high temperature silicone or special formula of “vitreous like appearance” coating on ALVR

Terminals: Tinned Copper clad steel

Part Marking: HEI, model, value, tolerance, date code

DERATING



TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/°C	± 30 for 10 Ω and above; ± 50 for 1 Ω to 9.9 Ω; ± 90 for 0.5 Ω to 0.99 Ω
Terminal Strength	lb	10 minimum
Dielectric Withstanding Voltage	V _{AC}	500 for 1 W and 1000 for 3 W and above
Operating Temperature Range	°C	Characteristic U = - 65 to + 250, characteristic V = - 65 to + 350
Maximum Working Voltage	V	(P × R) ^{1/2}

PERFORMANCE

TEST	CONDITIONS OF TEST	TEST LIMITS (CHARACTERISTIC V)
Thermal Shock	Rated power applied until thermally stable, then a minimum of 15 min at - 55 °C	± (2.0 % + 0.05 Ω) > ΔR
Short Time Overload	5 x rated power (3 W and smaller), 10 x rated power (4 W and larger) for 5 s	± (2.0 % + 0.05 Ω) > ΔR
Dielectric Withstanding Voltage	500 V _{RMS} , 1 min for 1 W and 1000 V _{RMS} , 1 min for 3 W and above	± (0.1 % + 0.05 Ω) > ΔR
Low Temperature Storage	- 65 °C for 24 h	± (2.0 % + 0.05 Ω) > ΔR
High Temperature Exposure	250 h at U = + 250 °C, V = + 350 °C	± (4.0 % + 0.05 Ω) > ΔR
Mechanical Shock	MIL-STD-202 method 213, 100 g's for 6 ms, 10 shocks	± (0.2 % + 0.05 Ω) > ΔR
Vibration	Frequency varied 10 Hz to 2000 Hz, 20 g peak, 2 directions 6 h each	± (0.2 % + 0.05 Ω) > ΔR
Load Life	2000 h at rated power, + 25 °C, 1.5 h “ON”, 0.5 h “OFF”	± (3.0 % + 0.05 Ω) > ΔR
Moisture Resistance	MIL-STD-202 method 106, 7b not applicable	± (2.0 % + 0.05 Ω) > ΔR



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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

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ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

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