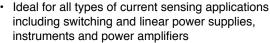
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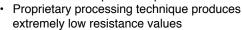
Wirewound Resistors, Precision Power, Low Value, Commercial, Military, MIL-PRF-49465 Type RLV, Axial Lead



FEATURES







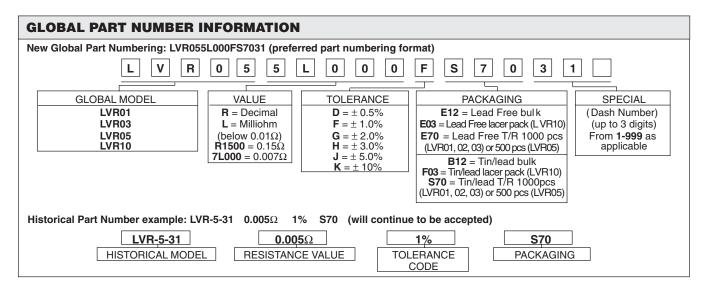
- Excellent load life stability
- Low temperature coefficient
- Low inductance
- Cooler operation for high power to size ratio

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	MIL-PRF-49465 P _{25°C}	POWER RATING Ω	RESISTANCE RANGE*	TECHNOLOGY
LV/D01	LVD 4	TYPE	W	± 1%, ± 3%, ± 5%, ± 10% 0.01 - 0.1**	Motal Ctria
LVR01	LVR-1	_	<u> </u>	****	Metal Strip
LVR03	LVR-3	_	3	0.005 - 0.2	Metal Strip
LVR0326	LVR-3-26	RLV30 (M4946506)	3	0.01 - 0.2	Metal Strip
LVR05	LVR-5	_	5	0.005 - 0.3	Metal Strip
LVR0526	LVR-5-26	RLV31 (M4946507)	5	0.01 - 0.3	Metal Strip
LVR10	LVR-10	_	10	0.01 - 0.8	Coil Spacewound

^{*}Resistance is measured 3/8" [9.52mm] from the body of the resistor, or at 1.183" [30.05mm], 1.315" [33.40mm], 1.675" [42.545mm] or 2.575" [65.405mm] spacing for the LVR01, LVR03, LVR05 and LVR10 respectively.

^{**}Standard resistance values are 0.01Ω , 0.015Ω , 0.02Ω , 0.025Ω , 0.03Ω , 0.03Ω , 0.04Ω , 0.05Ω , 0.051Ω , 0.06Ω , 0.06Ω , 0.06Ω , 0.07Ω , 0.08Ω , 0.09Ω and 0.1Ω with 1% tolerance. Other resistance values may be available upon request.

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	LVR01	LVR03	LVR05	LVR10
Rated Power at + 25°C	W	1	3	5	10
Operating Temperature Range	°C	- 65/ + 175 - 65/ + 275			
Dielectric Withstanding Voltage	V _{AC}	1000	1000	1000	1000
Insulation Resistance	Ω	10,000 Megohms minimum dry			
Short Time Overload	-	5 x rated power for 5 seconds 10 x rated power for 5 seconds			10 x rated power for 5 seconds
Terminal Strength (minimum)	lb	5	10	10	10
	ppm/°C	See TC vs Resistance Value Chart			
Maximum Working Voltage	٧	(P x R) ^{1/2}			
Weight (maximum)	g	2	2	5	11

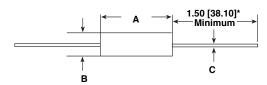




Wirewound Resistors, Precision Power, Low Value, Commercial, Military, MIL-PRF-49465 Type RLV, Axial Lead

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DIMENSIONS



*On some standard reel pack methods, the leads may be trimmed to a shorter length than shown.

MODEL	DIMENSIONS in inches [millimeters]				
	A ± 0.010 [0.254]	B ± 0.010 [0.254]	C ± 0.002 [0.051]		
LVR01	0.427 [10.85]	0.115 [2.92]	0.020 [0.508]		
LVR03	0.560 [14.22]	0.205 [5.21]	0.032 [0.813]		
LVR05	0.925 [23.50]	0.330 [8.38]	0.040 [1.02]		
LVR10	1.828 [46.43]	0.392 [9.96]	0.040 [1.02]		

MATERIAL SPECIFICATIONS

Element: Self-supporting nickel-chrome alloy

(LVR10 also utilizes manganin)

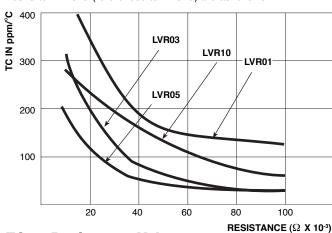
Encapsulation: High temperature mold compound

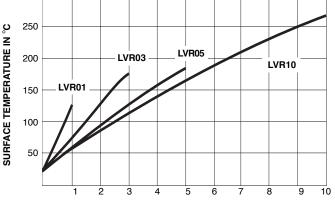
Terminals: Tinned copper

Part Marking: DALE, Model, Wattage, Value, Tolerance,

Date Code

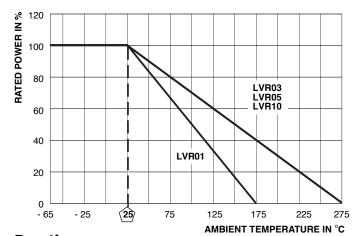
The improved TC characteristics of these LVR models from -55° C to $+125^{\circ}$ C (referenced to $+25^{\circ}$ C) are as follows:





Surface Temperature vs Power

POWER IN W



TC vs Resistance Value

	ra		

PERFORMANCE					
TEST	CONDITIONS OF TEST (MIL-PRF-49465)				
Thermal Shock	- 65°C to + 125°C, 5 cycles, 15 minutes at each extreme	\pm (0.2% + 0.0005Ω)ΔR			
Short Time Overload	5 x rated power (LVR01, 03, 05), 10 x rated power (LVR10) for 5 seconds	\pm (0.5% + 0.0005Ω)ΔR			
Low Temperature Storage	- 65°C for 24 hours	\pm (0.2% + 0.0005Ω)ΔR			
High Temperature Exposure	250 hours at + 275°C (+ 175°C for LVR01)	± (2.0% + 0.0005Ω)ΔR			
Dielectric Withstanding Voltage	1000V rms, one minute	\pm (0.1% + 0.0005Ω)ΔR			
Insulation Resistance	MIL-STD-202 Method 302, 100 volts	1000 MΩ minimum			
Moisture Resistance	MIL-STD-202 Method 106, 7b not applicable	± (0.2% + 0.0005Ω)ΔR			
Shock, Specified Pulse	MIL-STD-202 Method 213, 100g's for 6 milliseconds, 10 shocks	\pm (0.1% + 0.0005Ω)ΔR			
Vibration, High Frequency	Frequency varied 10 to 2000Hz, 20g peak, 2 directions 6 hours each	± (0.1% + 0.0005Ω)ΔR			
Load Life	2000 hours at rated power, + 25°C, 1.5 hours "ON", 0.5 hours "OFF"	± (2.0% + 0.0005Ω)ΔR			
Solderability	ANSI J-STD-002	95% coverage			
Bias Humidity	+ 85°C, 85% RH, 10% bias, 1000 hours	± (1.0% + 0.0005Ω)ΔR			

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