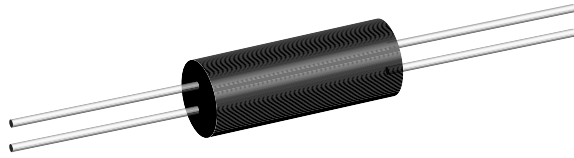




Wirewound Resistors, Molded Style, Current Shunts, Very Low Value, Four Terminal



FEATURES

- Molded four-terminal resistors for specialized applications
- Extremely low resistance values for current sensing applications
- Precision resistance tolerance
- Low temperature coefficients
- Complete welded construction



STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING ⁽¹⁾ <i>P</i> _{25 °C} W	RESISTANCE RANGE Ω	TOLERANCE ± %	WEIGHT (typical) g
SPU050	SPU-50	1	0.001 to 0.060	1	2.5
SPU051	SPU-51	2	0.001 to 0.060	1	3.7
SPU052	SPU-52	4	0.001 to 0.200	1	4.8
SPU053	SPU-53	5	0.010 to 0.500	1	10.8

Notes

- Standard resistance tolerances available are 0.5 %, 1.0 %, 3.0 %, and 5.0 %.
- ⁽¹⁾ Wattage rating is limited to 25 A maximum

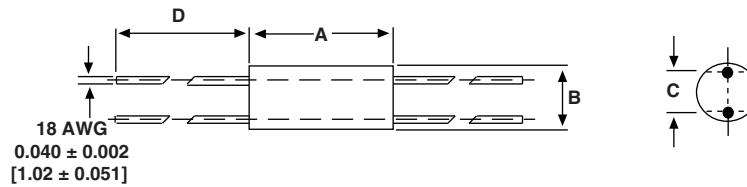
TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	SPU MOLDED STYLE RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/°C	± 100 (- 10 °C to + 80 °C)
Dielectric Withstanding Voltage	V _{AC}	500 minimum
Short Time Overload	-	5 x power for 5 s, limited to 25 A maximum
Maximum Working Voltage	V	(<i>P x R</i>) ^{1/2}
Insulation Resistance	Ω	10 000 MΩ minimum dry
Operating Temperature Range	°C	SPU050 and SPU051 = - 55 to + 175, SPU052 and SPU053 = - 55 to + 275

GLOBAL PART NUMBER INFORMATION				
Global Part Numbering example: SPU052R10000FD				
S	P	U	0	5
2	R	1	0	0
0	0	0	F	D
GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING	SPECIAL
SPU050 SPU051 SPU052 SPU053	L = mΩ (below 0.01 Ω) R = Decimal 5L0000 = 0.005 Ω R10000 = 0.10 Ω	D = ± 0.5 % F = ± 1.0 % H = ± 3.0 % J = ± 5.0 %	E ⁽²⁾ = Lead (Pb)-free, bulk D = Tin/lead, bulk	(Dash Number) (up to 2 digits) From 1 to 99 as applicable
Historical Part Numbering example: SPU-52 0.1 Ω 1 % S51				
SPU-52	0.100 Ω	1 %	S51	
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING	

Note

⁽²⁾ Lead (Pb)-free termination

DIMENSIONS in inches [millimeters]



GLOBAL MODEL	DIMENSIONS in inches [millimeters]			
	A	B	C	D
SPU050	0.660 ± 0.010 [16.76 ± 0.25]	0.312 ± 0.010 [7.92 ± 0.25]	0.200 ± 0.015 [5.08 ± 0.38]	1.000 + 0.25 - 0.125 [25.40 + 6.35 - 3.17]
SPU051	0.790 ± 0.010 [20.06 ± 0.25]	0.375 ± 0.010 [9.52 ± 0.25]	0.200 ± 0.015 [5.08 ± 0.38]	1.000 + 0.25 - 0.125 [25.40 + 6.35 - 3.17]
SPU052	1.000 ± 0.010 [25.40 ± 0.25]	0.375 ± 0.010 [9.52 ± 0.25]	0.125 ± 0.015 [3.17 ± 0.38]	1.000 minimum [25.40 minimum]
SPU053	1.870 ± 0.010 [47.50 ± 0.25]	0.437 ± 0.010 [11.10 ± 0.25]	0.125 ± 0.015 [3.17 ± 0.38]	1.000 minimum [25.40 minimum]

MATERIAL SPECIFICATIONS

Element: Nickel-chromium alloy or copper-manganese alloy, depending on resistance value

Molding Material: SPU050/051 thermo-set epoxy
SPU052/053 thermo-set silicone

Standard Terminals: SPU050/051: 100 % Sn or 60/40 Sn/Pb coated Copperweld®

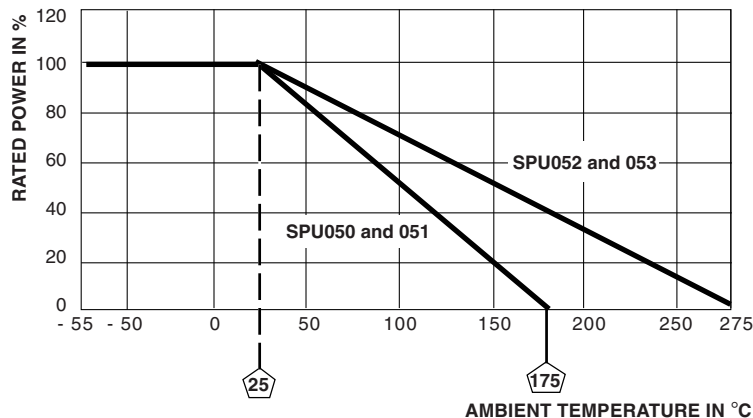
SPU052/053: 100 % Sn or 60/40 Sn/Pb coated copper

Part Marking: DALE, model, wattage, value, tolerance, date code

AMBIENT TEMPERATURE DERATING

Derating is required for ambient temperature above 25 °C per the following graph

DERATING





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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru