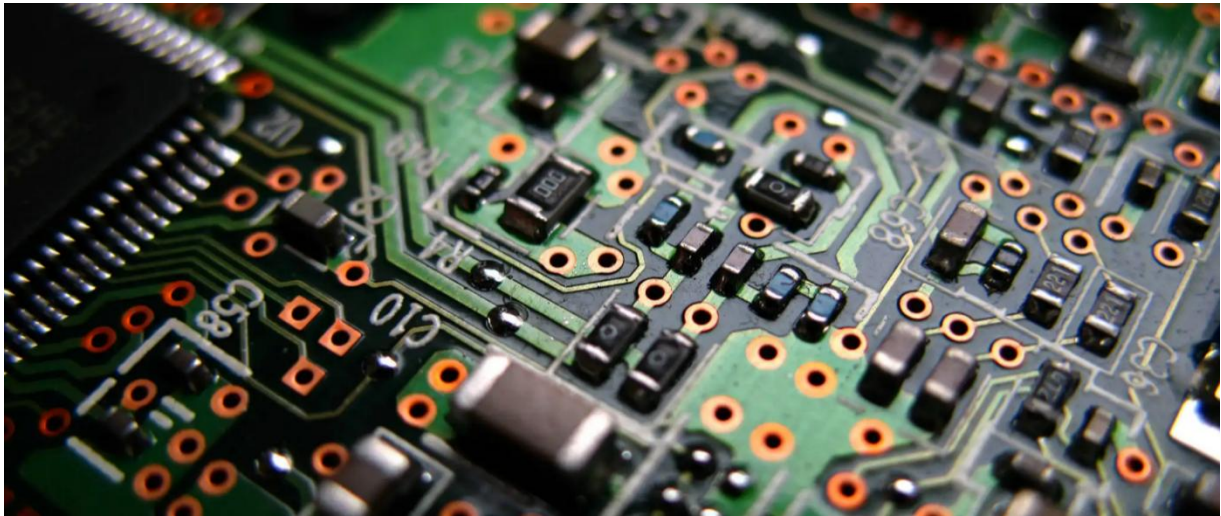


合金电阻规格书-2725 Alloy resistance specification

适用范围Scope

- 合金电阻2725系列 Metal Alloy Resistance 2725 Series.
- 符合ROHS 要求 Complies With ROHS Requirements
- 符合车规AEC-Q200 测试 Conforms To Vehicle-specific AEC-200 Tests



型号规格Type Designation :

电阻尺寸 Product Type	产品类型 Resistor Size	功率 Power	阻值精度 Resistance tolerance	阻值范围 Resistance
2725	LE(大电极)	4W	F: 1% J: 5%	0.2mΩ~3mΩ

编码原则Coding principle:

制造商/产品 manufacturer	尺寸 size	类型 type	功率 power	阻值 resistance	精度 accuracy	包装数量 quantity
YHR	2725	大电极 LE	4W	R001 R002	1%=F 5%=J	1 (1K)

示例/ Example: YHR2725LE4WR001F1

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结构尺寸Construction and Dimension :

Unit: mm

型号	P/w	R/mΩ	W	C	A	D	L	a	c
2725	4W	0.2~0.25	6.8±0.25	6.5±0.25	1.7±0.25	1.2±0.1	1.32	3.18	6.86
		0.5			1.2±0.25			2.28	
		1.0~2.0			1.0±0.25				
		3							

电气规格Electrical Specifications :

类型 type	功率 power	阻值范围 Resistance range	温度系数 TCR	工作温度范围 Operating temperature range	阻值精度 Resistance tolerance	绝缘阻抗 Insulation resistance	材料 Material
2725	4W	0.2mΩ~0.25 mΩ	±200	-55℃ ~ +170℃	F: 1% J: 5%	Over 100MΩ	FeCrAl Manganin Karma
		0.5 mΩ	±100				
		1 mΩ~2 mΩ					
		3 mΩ	±75				

① TCR (ppm/℃) : Test was conducted from 20℃ to 120℃ while 20℃ worked as the reference.

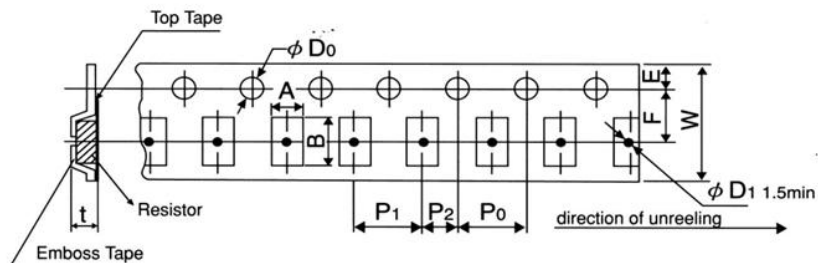
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可靠性验证Reliability Tests

items	Additional Requirements	Reference	Limits
Temperature of Resistance	+20 ~ 120°C	IEC60115-1 4.8	-
Temperature Cycling	1000 Cycles (-55°C to +155°C)	JESD22 Method JA-104	±1.0%
High Temperature Exposure	1000hrs.@T =170°C .Unpowered.	MIL-STD-202 Method 108	±1.0%
Biased Humidity	1000hrs 85°C/85%RH 。 Note: Specified conditions:10% of operating power.	MIL-STD-202 Method 103	±1.0%
Operational Life	Condition D Steady State TA =125 °C at rated power.	MIL-STD202 Method 108	±1.0%
Solderability	245°C ±, 3s	J-STD-202	95% Coverage Minimum
Resistance to Soldering Heat	260°C , 10s	MIL-STD 202 Method 210	±0.5%
Short Time Overload	5 × Rated power for 5 s	MIL-STD-202 Method 201	±1.0%
Flammability	V-0 or V-1are acceptable, Electrical test not required	AEC-Q200 REV D- Test 20 UL-94	V-0 or V1
Resistance to Solvents	Isopropyl alcohol (IPA), solvent temperature: 23±5°C , duration: 5 ±0.5 min	JIS-C5201 -1 4.29	No Visible Damage

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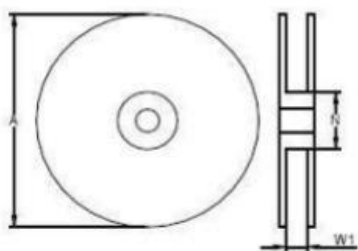
载带尺寸Tape Packing Dimensions:



Type	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀
YHR25-W	9.8	9.6	24	11	1.75	12	2.0	4.0	1.5

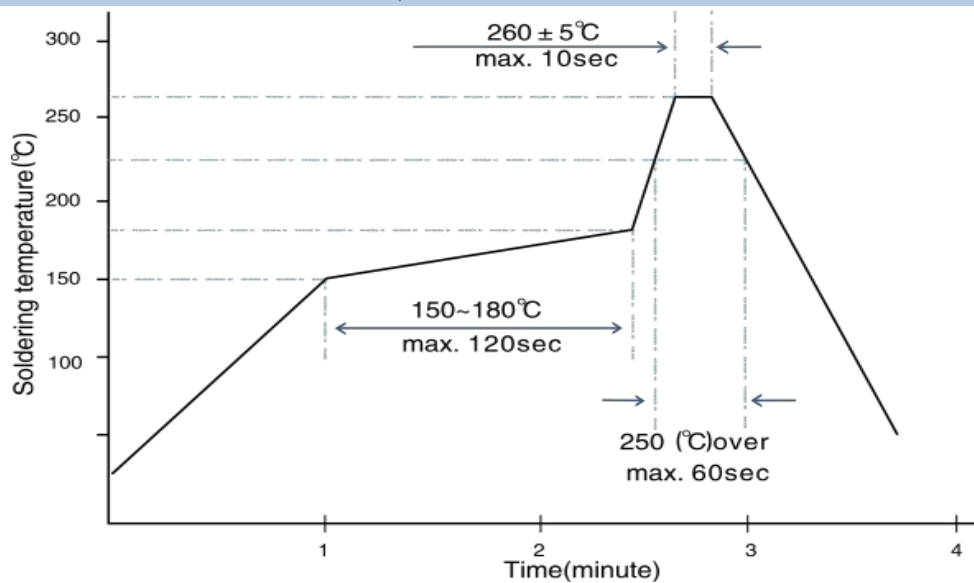
存储条件 Storage Conditions: Temperature:5℃ ~35℃, Humidity:40%~75%

卷盘尺寸Reel Dimensions:



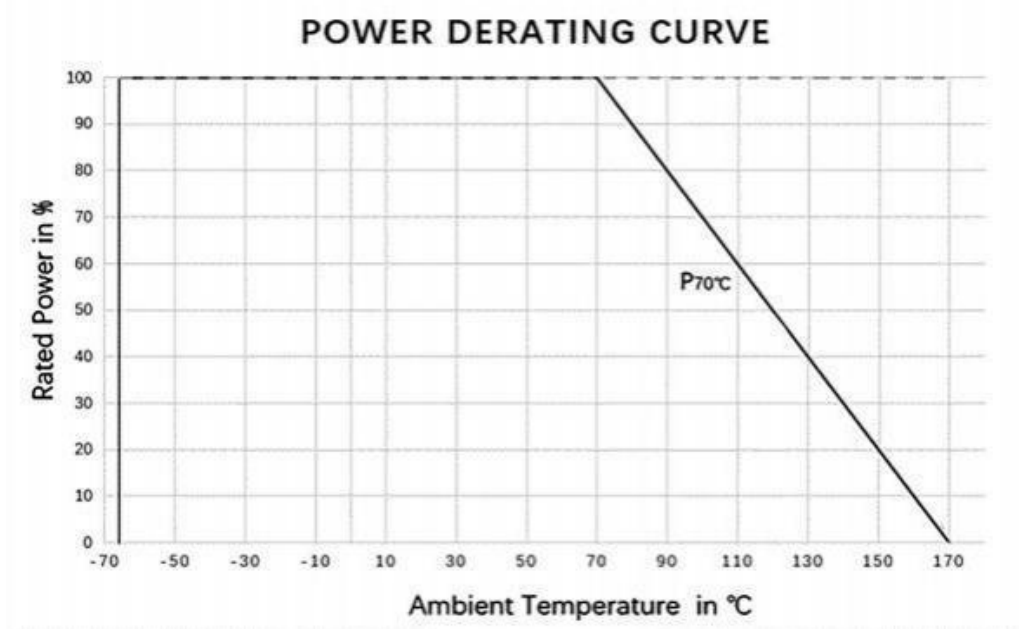
Type	A±2	N±1	W1±1
YHR25	178	60	12

回流焊温度曲线 Solder Reflow Temperature Condition :



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功率衰减曲线图 / Derating Curve:



阻值范围 Resistance value	0.2~50mΩ
精度 Tolerance	±1%、±5%
功率 Power	2~5W
温度系数 Temperature coefficient	±75ppm/°C 、 ±100ppm/°C 、 ±200ppm/°C
合金材质 Alloy material	M: Manganin、K:Karma、F:FeCrAl
工作温度范围 Operating temperature range	-55°C ~170°C
低电感 Low inductance	K/M: < 5nH (1MHz) F: < 20nH (1MHz)
绝缘阻抗 Insulation resistance	≥220MΩ (DC 500V 1min)
耐压值 Withstand voltage	500V
符合RoHS要求	RoHS compliant

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注意事项：Matters Needing Attention

- 1, 储存时应注意温度和湿度 (温度 25°C, 相对湿度 60% RH). 湿度尽可能保持在范围内;
Chip resistor shall be stored in a room where temperature and humidity must be controlled.
(temperature 25°C, humidity 60% RH) However, a humidity keep it low, as it is possible.
- 2, 不能阳光长时间直接照射产品; Chip resistor shall be stored as direct sunshine doesn't hit on it.
- 3, 不能存储在潮湿, 灰尘及导致焊接性能变差的有害气体环境中(氯化氢气体、亚硫酸气体、硫化氢气体); Chip resistor shall be stored with no moisture, dust, a material that will make solder ability inferior, and a harmful gas (Hydrogen chloride, sulfurous acid gas, and Hydrogen sulfide)
- 4, 保存期限: 2 年; Storage life: 2 year;

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