

Low Resistance Metal Strip Chip Resistor

ALMR Series

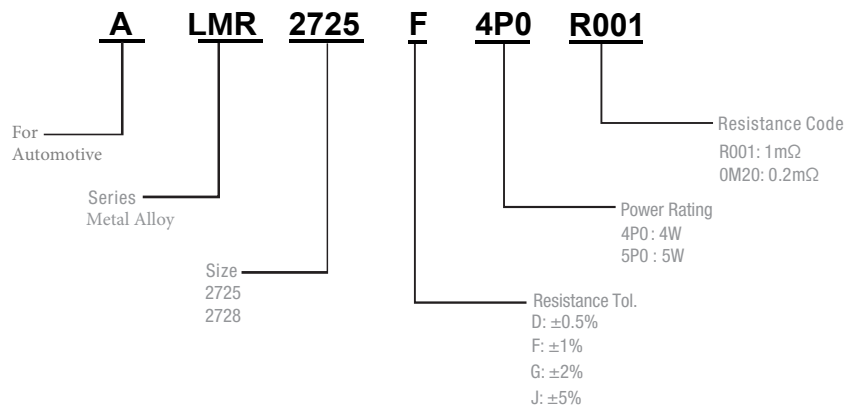
PROSEMI offers AEC-Q200 qualified Current Sensing Resistor



Description

- Current Sensing
- Over current protection
- Servo motor control circuits
- Inverter power
- Electric control system
- Li-battery management system
- Low inductance < 5nH (1MHz)
- Insulation resistance $\geq 220\text{M}\Omega$ (DC 500V 1min)
- AEC-Q200 qualified available
- RoHS compliant

Part Numbering System

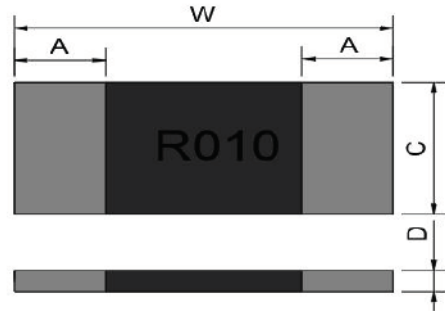


Type	Rating Power at 70℃	T.C.R. (ppm/℃)	Resistance Range(mΩ) 0.5% (D) 1.0% (F) 2.0% (G) 5.0% (J)	Meterial	Operating Temperature(℃)
ALMR2725	4W	±200	0.2~0.25	FeCrAl Manganin Karma	-55℃~170℃
		±100	0.5		
			1~2		
		±75	3		
ALMR2728	5W	±50	1~50		
	4W	±50			

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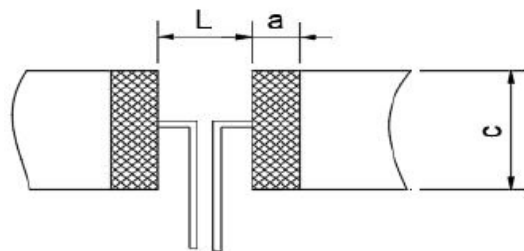
Construction



Unit: mm

Type	Resistance (mΩ)	W	C	A	D
ALMR2725	0.2~0.25	6.8±0.25	6.5±0.25	1.7±0.25	1.2±0.1
	0.5			1.2±0.25	
	1~2			1.0±0.25	
	3			1.0±0.25	
ALMR2728	1	6.8±0.2	7.2±0.2	1.2±0.2	1.0±0.1
	2~50				0.8±0.1

Recommended land pattern



Unit: mm

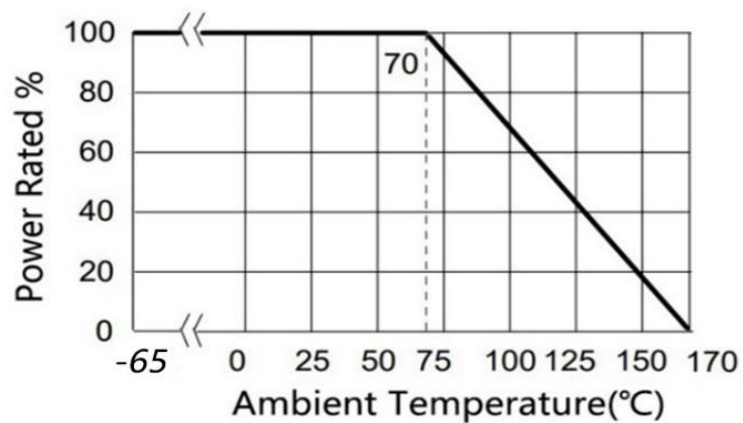
Type	Resistance (mΩ)	L	a	c
ALMR2725	0.2~0.25	1.32	3.18	6.86
	0.5~3	3.12	2.28	
ALMR2728	1	4.5	3.0	7.8
	2~50			

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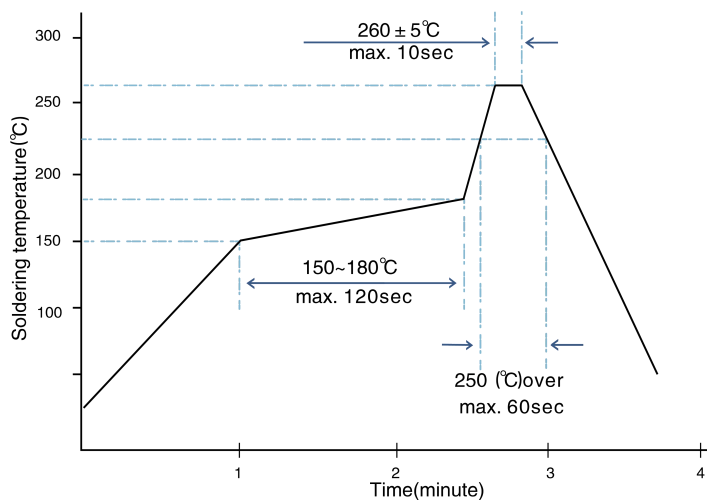
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Power Derating Curve

For resistors operated in ambient temperatures 70°C, power rating shall be derated in according with the curve below:



Solder Reflow Temperature Condition



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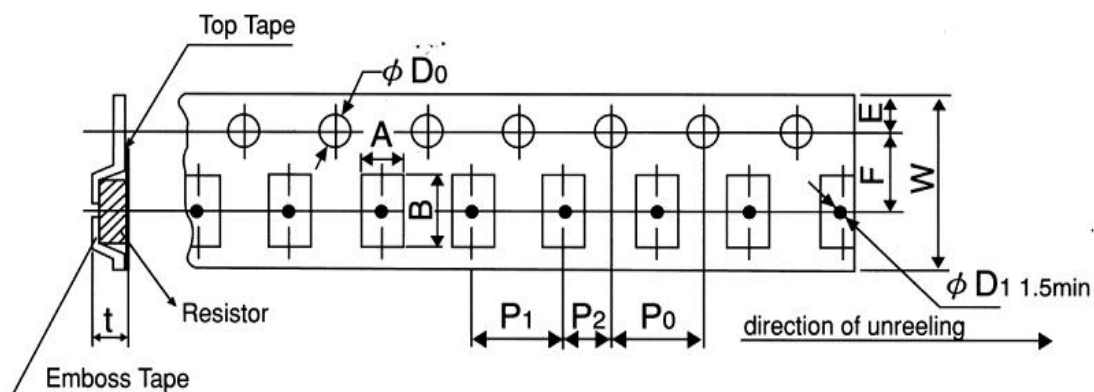
Product Characteristics

Item	Test condition/ Methods	Limited
Temperature coefficient of resistance	Test was conducted from 20℃ to 120℃ while 20℃ worked as the reference.	Refer to Spec
Short time Overload	5 X rated power for 5s	±0.5%
Resistance to Soldering Heat	260℃± 5℃ time: 10sec± 1sec	±0.5%
Temperature Cycling	1000Cycle (-55℃ to 155℃)	±1%
High Temperature Storage	1000hours at 170℃,No power	±1%
Bias Humidity	1000hrs 85℃/85%RH。 Note: Specified conditions:10% of operating power.	±1%
Operational life	Condition D Steady State TA=125℃ at rated power	±1%
Solderability	245℃ , 3s.	95% Coverage Minimum

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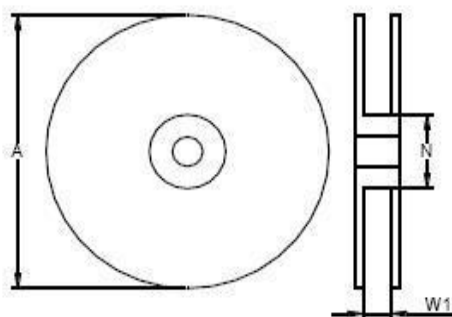
Tapping & Package



Unit: mm

Type	A ±0.2	B ±0.2	W +0.3	F ±0.1	E ±0.1	P ₁ ±0.1	P ₂ ±0.1	P ₀ ±0.1	D ₀ ±0.1	t ±0.2	Quantity (pcs)
2725	6.9	7.2	12.0	5.5	1.75	8.0	2.0	4.0	1.5	1.5	1,000
2728	7.7	7.1	16.0	7.5	1.75	12.0	2.0	4.0	1.5	1.3	

Reel Specification



Unit: mm

Type	A	N	W1
2725	178±2	60±1	12±1
2728			