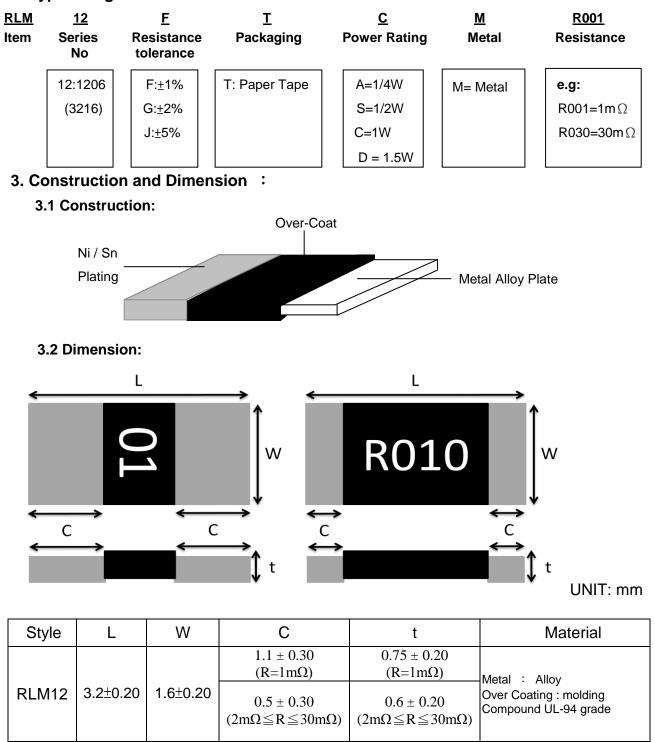


1. Scope :

This specification applied to the products of current sensing resistor of metal foil for Lead-Free RLM series manufactured by TA-I TECHNOLOGY CO., LTD.

2. Type Designation :



TA-I TECHNOLOGY CO., LTD



Current Sensing Resistors RLM Series (Halogen-Free) AEC-Q 200-Ver D qualified

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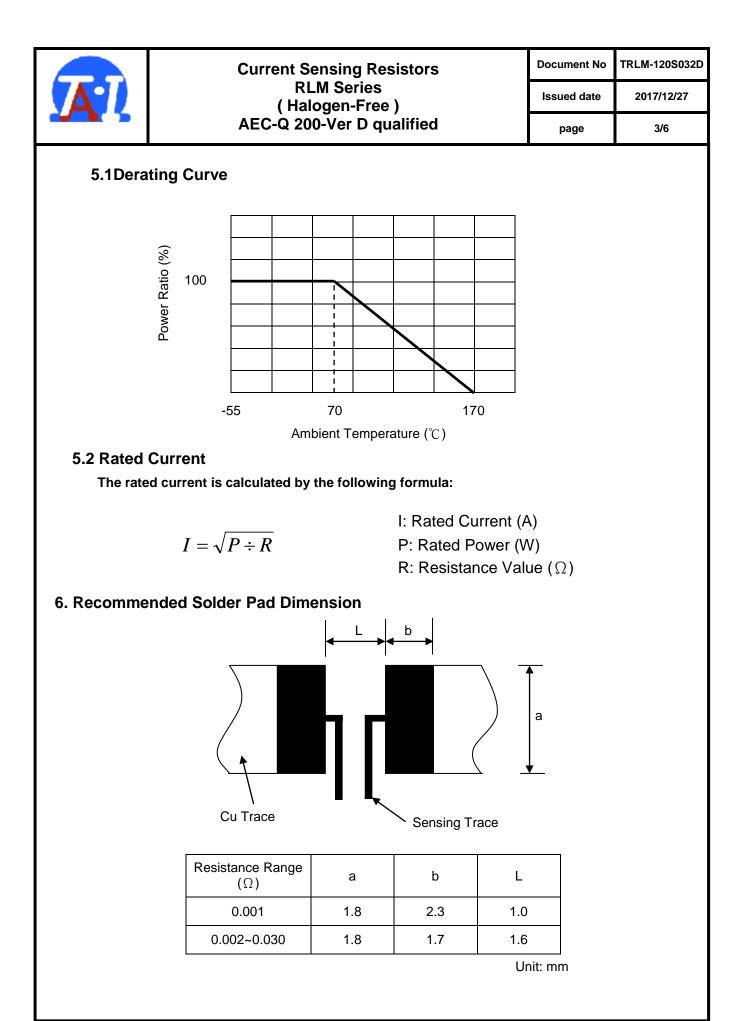
4. Features:

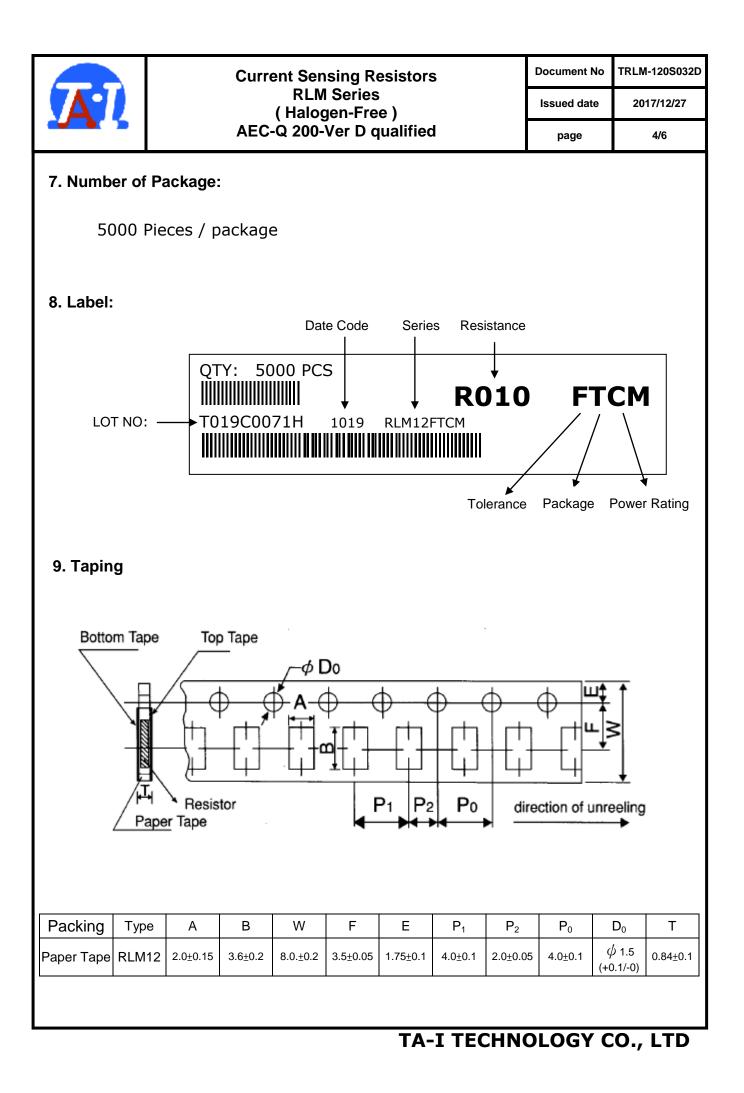
Туре	RLM12	
Power Rating	1/4W & 1/2W & 1W & 1.5W	
Resistance Value	$1 \sim 30 \text{m} \Omega \ (1/4 \text{W} \sim 1 \text{W})$	
	$1 \sim 5 \text{ m}\Omega \ (1/4\text{W} \sim 1.5\text{W})$	
Operation Temperature Range	−55°C ~+170°C	
Temperature Coefficient of Resistance ±50ppm/°C		
Tolerance $\pm 1\% \times \pm 2\% \times \pm 5\%$		
nsulation Resistance Over 100MΩ		
Maximum Working Voltage(V)	$(P*R)^{1/2}$	

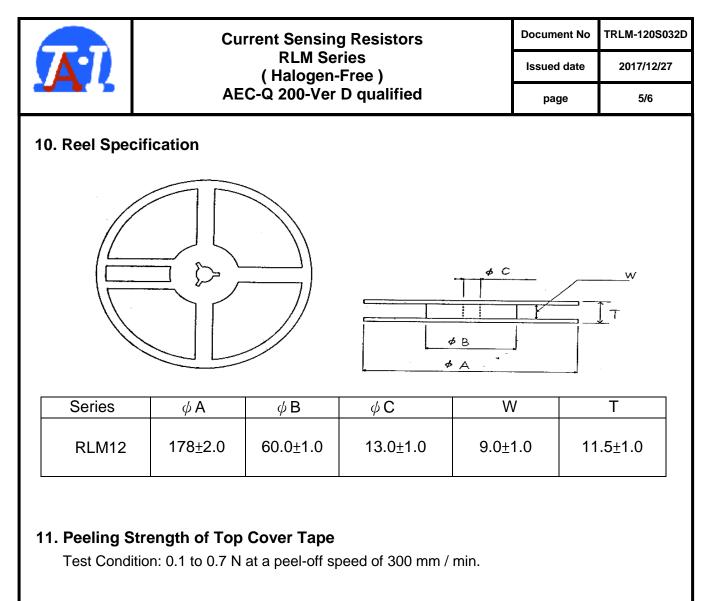
Note*:1 Watts with total solder pad and trace size of 300mm²

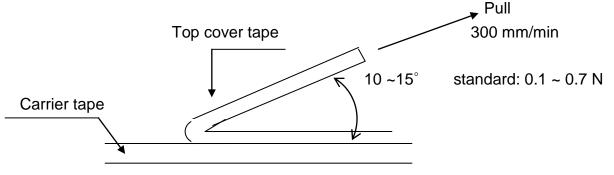
5. Reliability Tests:

Test Items	Reference	Condition of Test	Test Limits
Temperature Coefficient of Resistance	IEC60115-1 4.8	+25 ~ 125℃	Refer 4.0
High Temperature Exposure(Storage)	MIL-STD- 202 Method 108	$T=125^{\circ}C$,1000hrs,Measurement at 24hrs after test conclusion.	< ±1%
Low temperature operation	IEC60115-1 4.23.4	-55 °C for 45 min	< ±0.5%
Temperature Cycling	JESD22 Method JA-104	1000Cycle (-55°C to 125 °C),Measurement at 24hrs after test conclusion.	< ±0.5%
Short time overload	IEC60115-1 4.13	5 X rated power for 5s	< ±0.5%
Biased Humidity	MIL-STD- 202 Method 103	10% Rated voltage at 85 °C,RH:85% ,1000Hrs, Measurement at 24hrs after test conclusion.	< ±0.5%
Operation life	MIL-STD- 202 Method 108	1000 h at +70 °C, 1.5 h "ON", 0.5 h "OFF"	< ±1%
Resistance to Soldering Heat	IEC60115-1 4.18	T=260+/-5 $^{\circ}$ C solder,10+/-1 sec dwell	< ±0.5%
Mechanical Shock	MIL-STD- 202 Method 213	100g's , Normal duration is 6ms , half sine shock pulse	< ±0.5%
Resistance to vibration	MIL-STD- 202 Method 204	5g's for 20min.12cycles, 10-2000Hz	<±0.5%
Board Flex	AEC-Q200- 005	Min 2mm deflection ,60sec.	< ±0.5%
Flammability	UL-94	V-0 or V-1are acceptable, Electrical test not required	







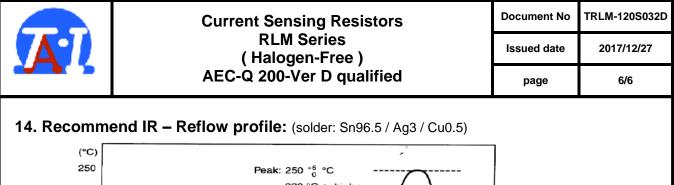


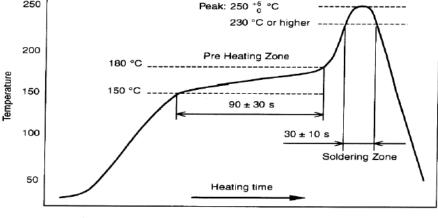
12. Storage Conditions:

Temperature: $5^\circ\!\mathrm{C}\,\text{--}35^\circ\!\mathrm{C}$,Humidity:40%~75%

13. Shelf Life:

2 years from manufacturing date.





Peak : 250 $\begin{array}{c} +5 \\ -0 \end{array}$ °C , 5 sec Pre-heat zone : 150 to 180 °C, 90±30 sec Soldering zone : 230°C or higher , 30±10 sec

15. ECN

Engineering Change Notice: The customer will be informed with ECN if there is significant modification on the characteristics and materials described in approval sheet.

16. Manufacturing Country & City:

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- (2) TA-I TECHNOLOGY ELECTRONIC (DONGGUAN) CO., LTD. (China –Dongguan) Tel: (+86) 769-8339-4790~3 Fax : (+86) 769-8339-4794
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- (4) TAI OHM ELECTRONICS (M) SDN. BHD. (Malaysia Penang) Tel: (+60) 4-3900480 Fax: (+60) 4-3901481
- (5) P.T.TAI ELECTRONIC Indonesia (Indonesia Jakarta) Tel: (+62) 21-44820254 Fax: (+62) 21-44820256

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