DATA SHEET

CURRENT SENSOR-LOW TCR

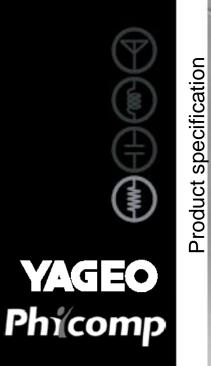
PA0612-series

755

8050

9810

5%, 1% size 0612 RoHS Compliant & Halogen Free



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Chip Resistor Surface Mount

PA SERIES 0612

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SCOPE

This specification describes PA0612 current sensor – low TCR chip resistors made by metal alloy.

ORDERING INFORMATION - GLOBAL PART NUMBER

Part number is identified by the series name, size, tolerance, packaging type, temperature coefficient of resistance, taping reel, resistance value.

APPLICATIONS	

- Power supplies
- Consumer(Mobile \ PNDs \ ...)
- Laptop
- HDDs
- Car electronics

FEATURES

- AEC-Q200 qualified
- Products with lead free terminations meet RoHS requirements.
- High component and equipment reliability with high power rating.
- Low resistance and narrow tolerance

can suitable for current detection.

$\frac{X X X X XX XXX L}{(1) (2) (3) (4) (5) (6)}$

(1) TOLERANCE

F = ±1%

 $\mathsf{J} = \pm 5\%$

(2) PACKAGING TYPE

R = Paper taping reel

(3) TEMPERATURE COEFFICIENT OF RESISTANCE

- E=±50ppm/°C
- F=±100ppm/°C

(4) TAPING REEL

07 = 7 inch dia. Reel & Power Rating 1W

(5) RESISTANCE VALUE

0R001 (1mR) ~ 0R01 (10mR)

(6) DEFAULT CODE

Letter L is system default code for order only (NOTE)

ORDERING EXAMPLE

The ordering code for a PA0612 1W chip resistor,TC100 value $0.002\Omega(2mR)$ with ±1% tolerance, supplied in 7-inch tape reel with 5Kpcs quantify is: PA0612FRF070R002L.

NOTE

1. All our RSMD products meet RoHS compliant and Halogen Free. "LFP" of the internal 2D reel label mentions "Lead Free Process".

2. On customized label, "LFP" or specific symbol can be printed.

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	Chip Resistor Surface Mount PA SERIES 0612	7
MARKING		
PA0612		
Fig.1	No marking	

OUTLINES For dimension see Table 1 Image: Contract of the set of t

DIMENSIONS

I	1mΩ~10mΩ
L (mm)	1.6±0.20
W (mm)	3.2±0.20
H (mm)	Max.0.45
l1 (mm)	0.35±0.15



Chip Resistor Surface Mount

PA SERIES 0612

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ELECTRICAL CHARACTERISTICS

Table 2

	PA0612
Operating Temperature Range	–55°C to +155°C
Maximum Working Voltage	$\sqrt{(P^*R)}$
Resistance Range	1~10mΩ
Temperature Coefficient	±100ppm/℃, 1≤R<5mΩ
	±50ppm/, 5m Ω ≤R≤10m Ω

PACKING STYLE AND PACKAGING QUANTITY

Table 3				
PRODUCT TYPE	PACKING STYLE	REEL DIMENSION	QUANTITY PER REEL	
PA0612	Paper taping reel	7" (178 mm)	5,000 Units	

FUNCTIONAL DESCRIPTION

POWER RATING

PA0612 standard rated power at 70°C is 1W

RATED VOLTAGE

The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

 $U=\sqrt{(P*R)}$

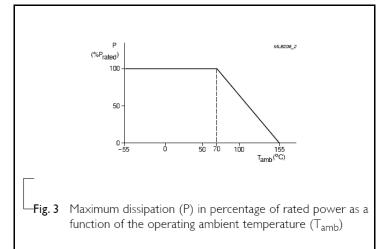
Where

U=Continuous rated DC

or AC (rms) working voltage (v)

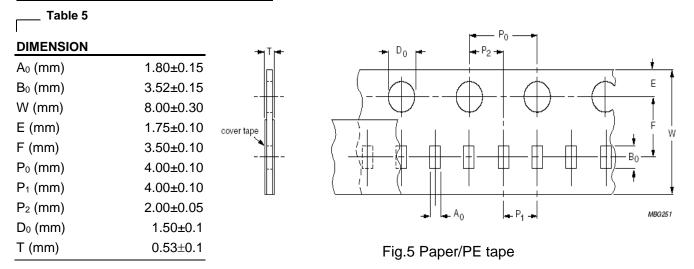
P=Rated power

R=Resistance value (Ω)



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TAPING REE	<u>:L</u>		
Table 4			
DIMENSION	PA0612		
Tape Width(mm)	8		
ØA (mm)	178.0±5		
ØN (mm)	60.0+1/-0		
ØC (mm)	13.00±0.5		
ØD (mm)	17.70±0.5		
W1 (mm)	8.4+1/-0		





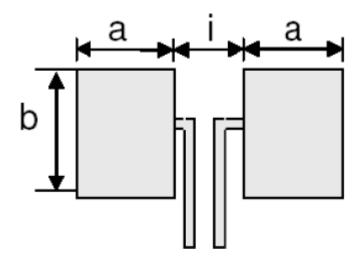
PAPER/PE TAPE SPECIFICATION



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FOOTPRINT DIMENSION

Size Footprint	Dimensions		Code	unit :mm
PA0612	а	b		i
1≤R<10mΩ	2.0	3.68		0.6



RECOMMENDED FOOTPRINT DIMENSIONS

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	Chip Resistor Surface Mount	PA SERIES 0612		7	
TESTS AND	REQUIREMENTS			Ľ	
TEST	TEST METHOD	PROCEDURE REQUIREM			
Life/ Endurance	IEC 60115-1 4.25.1	1,000 hours at 70±5 °C applied RCWV 1.5 hours on, 0.5 hour off, still air required	± (1.0 % + 0.000	5Ω)	
High Temperature Exposure/ Endurance at upper category temperature	IEC 60068-2-2	1,000 hours at 155±5 °C, un-powered	± (1.0 % + 0.000	5Ω)	
Moisture Resistance	MIL-STD-202 Method 106G	 Each temperature / humidity cycle is defined at 8 hours (Method 106G), 3 cycles / 24 hours for 10d. with 25 °C / 65 °C 95% R.H, without steps 7a & 7b, un-powered Parts mounted on test-boards, without condensation on parts Measurement at 24±2 hours after test conclusion. 		5Ω)	
Thermal Shock	MIL-STD-202 Method 107G	-55/+125 °C Note: Number of cycles required is 300. Devices mounted Maximum transfer time is 20 seconds. Dwell time is 15 minutes. Air – Air	± (1.0% + 0.000	5Ω)	
Short time overload	IEC 60115-1 4.13	Applied 5 times of rated power 5 seconds at room temperature + (0.5% + No visible			
Board Flex/ Bending	IEC 60068-2-21	Chips mounted on a 90mm glass epoxy resin PCB(FR4) 2 mm bending Bending time: 60±1 seconds	± (1.0 % + 0.000		
Solderability - Wetting	J-STD-002 test B	Electrical Test not required Magnification 50X SMD conditions: 1 st step: Method B, aging 4 hours at 155 °C dry heat 2 nd step: leadfree solder bath at 245±3 °C Dipping time: 3±0.5 seconds			
- Leaching	J-STD-002 test D	Leadfree solder, 260 °C, 30 seconds immersion time	No visible dama	ge	
- Resistance to Soldering Heat	IEC 60068-2-58	Condition B, no pre-heat of samples Leadfree solder, 260±5 °C, 10±1seconds immersion time Procedure 2 for SMD: devices fluxed and cleaned with isopropanol	± (0.5% + 0.000 No visible damag	, i	

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	Chip Resistor Surface Mount	PA	SERIES	0612		7
REVISION H	ISTORY					

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	2022-04-22		- First issue of this specification

单击下面可查看定价,库存,交付和生命周期等信息

>>Yageo(国巨)