DONGGUAN AMPFORT ELECTRONICS CO., LTD.

DOCUMENT: QR0429

PRODUCT: TCS1206003S1W0

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1 of 2

Current Sensing Resistors

Specification Sheet

Terminal Pad Solderability: Meets EIA Specification RS186-9E And ANSI/J-STD-002 Category 3.

Terminal Pad Materials: Tin-plated Nickel-Copper

Lead-Free, RoHS Compliant

Marking:

Part Identification

 R^{***} = Resistance specification

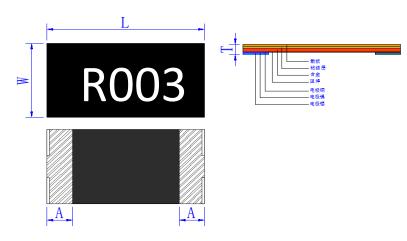


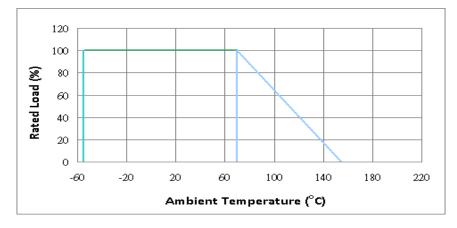
TABLE I. Construction And Dimension (Unit:mm)

Model	Marking	L	W	Т	Α
TCS1206003S1W0	R003	3.20 ±0.2	1.60 ±0.2	0.40 ±0.2	0.58 ±0.2

TABLE II . Performance Specification:

Model	Mouking	Prat 70℃	Ro	Rt	Vmax
Wodei	Marking	(Watt)	$(m\Omega)$	(±%)	(V)
	R003	1. 00	3.00	1, 2, 3, 5	(P*R) 1/2
TCC4206002C4W0		TCR	Ri	Ta	
TCS1206003S1W0		(ppm)	$(M\Omega)$	(℃)	
		± 70	>100	70.00	

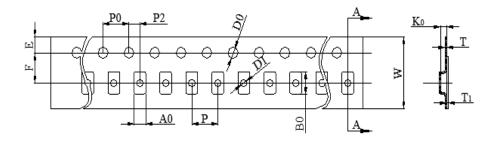
TABLE III. Temperature and heat derating curve.

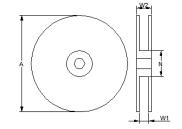


Rated power refers to the term that can be used continuously at full power within 70 C.

The following figure shows the usable power attenuation curve when the operating temperature is higher than 70 C.

TABLE IV. Tape And Reel Specifications (mm)

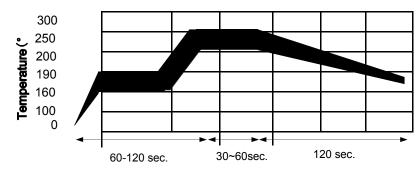




型号	W	D0	P0	F	Р	Е	P2	Т	A0	В0	T1	K0
型写	±0.30	±0.10	±0.10	±0.10	±0.10	±0.10	±0.10	±0.10	±0.15	±0.15	max	±0.15
TCS1206003S1W0	8	1.5	4	3.5	4	1.75	2	0.2	1.82	3.53	0.1	0.6

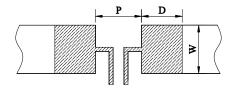
型号	Α	N	W1	W2 Max.	
TCS1206003S1W0	178± 5	60± 2	8.4+1/-0	12.4	

TABLE V. Recommended Solder Reflow Conditions



- Recommended reflow methods : IR, vapor phase oven, hot air oven.
- Devices are not designed to be wave soldered to the bottom side of the board.
- Recommended maximum paste thickness is 0.15 mm (0.006 inch).
- Devices can be cleaned using standard method and solvents.
- Note: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.
- · In case of special use, please contact our engineer

TABLE VI. Recommended Pad Layout (mm)



Dant Nami	P W		D	t	Load
Part Number	mm	mm	mm	$\mu_{ m m}$	W
TCS1206003S1W0	1. 20	1.84	2.50	105.00	1.00

Order Information

Packaging

		<u> </u>
TCS1206	003	Tape & Reel Quantity
Product name	R	
Size 3216 mm / 1206 mils	$3m\Omega$	5000 pcs/reel
SMD: surface mount device		