

DATASHEET

Product Name **Zero-ohm Resistors**

Part Name **ZO Series**

File No. **DIP-SP-017**

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1. Scope:

- 1.1 This datasheet is the characteristics of Zero-ohm Resistors manufactured by UNI-ROYAL.
- 1.2 Compliant with RoHS directive.
- 1.3 Halogen free requirement.

2. Explanation of Part No. System

- 2.1 Zero ohms, the 1st to 3rd digits are to indicate the product type and 4th digit is the special feature.

Example: ZO00= Zero ohm Resistors

- 2.2 5th~6th digits:

This is to indicate the wattage or power rating.

Wattage	1/4	1/8
Normal Size	W4	W8

- 2.3 The 7th digit is to denote the Resistance Tolerance. For jumper Wire resistors, The 7th digits will be indicated with “0”

- 2.4 The 8th to 11th digits is to denote the Resistance Value.

- 2.4.1 For Zero ohm Resistors, The 8th~11th digits will be indicated with “0000”

- 2.4.2 The 12th, 13th & 14th digits.

The 12th digit is to denote the Packaging Type with the following codes:

A=Tape/Box (Ammo pack) B=Bulk/Box T=Tape/Reel

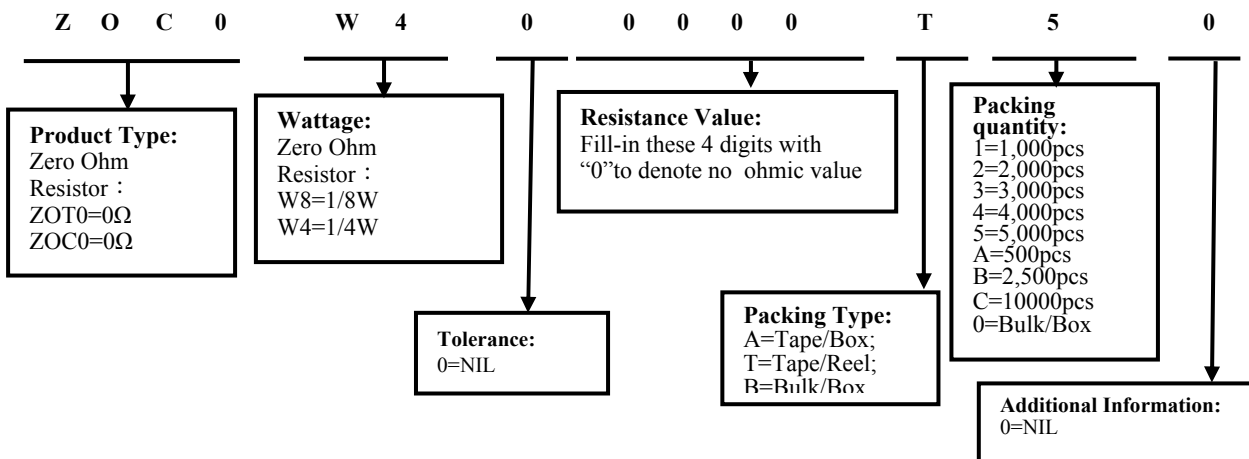
- 2.4.3 The 13th digit is normally to indicate the Packing Quantity of Tape/Box & Tape/Reel packaging types. The following number is to be used for some packing quantities:

1=1000pcs 2=2000pcs 3=3000pcs 4=4000pcs 5=5000pcs

- 2.4.4 For some items, the 14th digit alone can use to denote special features of additional information with the following codes: 0=NIL

3. Ordering Procedure

(Example: ZOC 1/4W 0 Ω T/R-5000)



4. Label

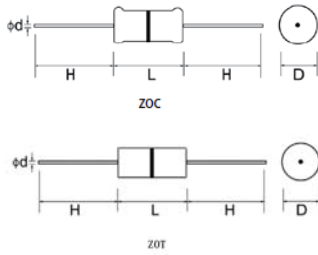
Label shall be marked with following items:

- (1) Type and style
- (2) Nominal resistance
- (3) Resistance Tolerance
- (4) Quantity
- (5) Lot Number
- (6) PPM

Example:

ZOC0 OHM RESISTORS	
WATT: 1/4W	VAL: 0Ω
Q'TY: 5,000	TOL:
LOT: 7021548	PPM:

5. Dimension



Type	Power Rating	Dimension (mm)				Resistance Range ($\leq m\Omega$)	Rated Current
		D ± 0.3	L	d ± 0.05	H ± 3		
ZOC	1/8W	1.9	3.3 ± 0.3	0.45	28	40m Ω	1.5A
ZOT	1/8W	1.9	3.3 ± 0.3	0.45	28	10m Ω	1.5A
ZOC	1/4W	2.2	6.5 ± 1.0	0.54	28	40m Ω	2.5A
ZOT	1/4W	2.2	6.5 ± 1.0	0.54	28	10m Ω	2.5A

6. Construction

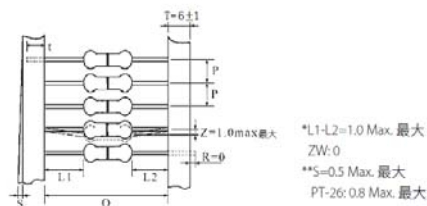
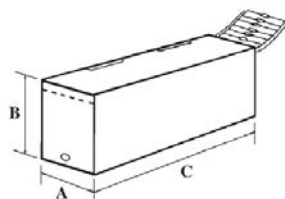
No.	Subpart Name	Material Generic Name
1	Body	Iron rod painted
2	Coating	Epoxy(color: beige)
3	Lead	Copper wire
4	Color code	One black band color

7. Characteristic

Requirements	Characteristics
Lead material	Tin-plated copper.
Insulation resistance	Dry-10,000M Ω ; wet-100M Ω
Dielectric-withstanding voltage	Atmospheric – 500V RMS, reduced – 325V RMS
Rated Current	1/8W 70°C 1.5 A , 1/4W 70°C 2.5A Derating ,to 0 Amps at 150°C

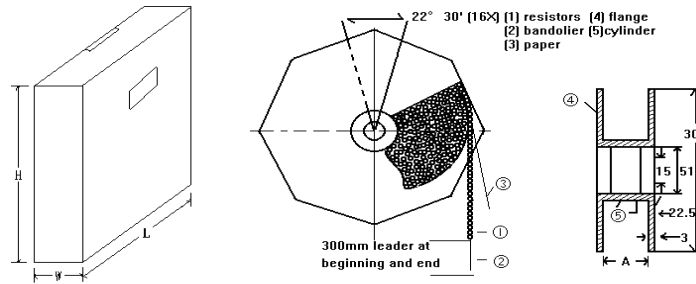
8. Packing

8.1 Tapes in Box Packing: Dimension of T/B (mm)



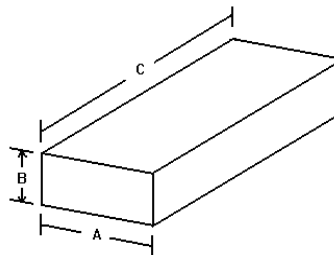
Type	O ± 1	P ± 0.3	W(A) ± 5	H(B) ± 5	L(C) ± 5	Quantity/box
ZOT0/ZOC0 1/8W	52	5	75	70	255	5,000PCS
ZOT0/ZOC0 1/4W	52	5	75	98	255	5,000PCS

8.2 Tapes in Reel Packing: Dimension of Reel (mm)



Type	O±1	A±2	W±5	H±5	L±5	Qty/Box
ZOT0/ZOC0 1/8W	52	73	85	295	293	5,000PCS
ZOT0/ZOC0 1/4W	52	73	85	295	293	5,000PCS

8.3 Bulk in Box Packing: Dimension of Box (mm)



Type	A±5	B±5	C±5	Qty/Box
ZOT0/ZOC0 1/8W	140	80	240	1,000PCS/20,000pcs
ZOT0/ZOC0 1/4W	140	80	240	500PCS/10,000pcs

9. Precaution for storage/Transportation

9.1. UNI-ROYAL recommend products store in warehouse with temperature between 15 to 35°C under humidity between 25 to 75%RH.

Even under storage conditions recommended above, solder ability of products will be degraded stored over 1 year old.

9.2. Cartons must be placed in correct direction which indicated on carton, otherwise the reel or wire will be deformed.

9.3. Storage conditions as below are inappropriate:

- Stored in high electrostatic environment
- Stored in direct sunshine, rain, snow or condensation.
- Exposed to sea wind or corrosive gases, such as Cl₂, H₂S, NH₃, SO₂, NO₂, Br etc.

10. Record

Version	Description	Page	Date	Amended by	Checked by
1	Modify characteristic	1~5	Mar.20, 2018	Haiyan Chen	Nana Chen
2	Specification resistance range standard	3	Dec.31, 2019	Haiyan Chen	Yuhua Xu

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