

DATASHEET

Product Name **Zero-ohm Resistors**

Part Name **ZO Series**

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

Uniroyal Electronics Global Co., Ltd.

88#, Longteng Road, Economic & Technical Development Zone, Kunshan, Jiangsu, China

Tel +86 512 5763 1411 / 22 /33

Email marketing@uni-royal.cn

Manufacture Plant Uniroyal Electronics Industry Co., Ltd.

Aeon Technology Corporation

Royal Electronic Factory (Thailand) Co., Ltd.

Royal Technology (Thailand) Co., Ltd.

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

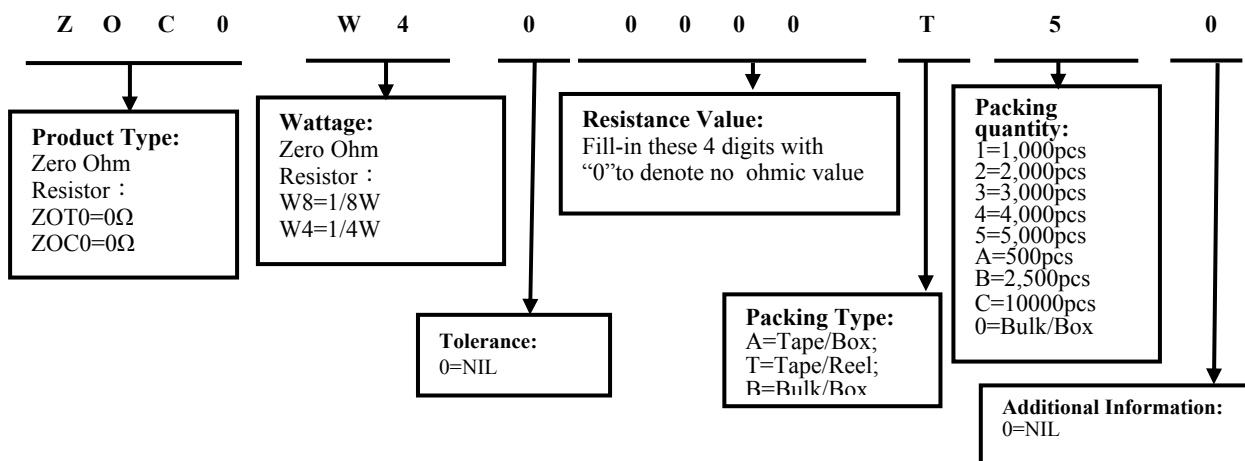
2.4.3 The 13th digit is normally to indicate the Packing Quantity of Tape/Box & Tape/Reel packaging types. The following number is to be used for some packing quantities:

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

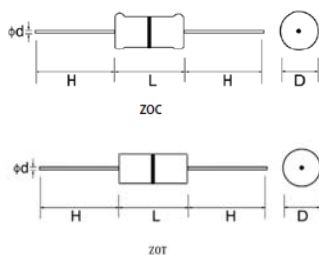
Label shall be marked with following items:

- (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

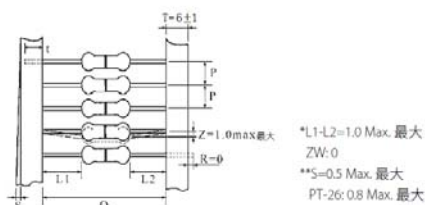
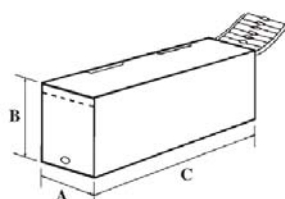
No.	Subpart Name	Material Generic Name
1	Body	Iron rod painted
2	Coating	Epoxy(color: beige)
3	Lead	Copper wire
4	Color code	One black band color

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

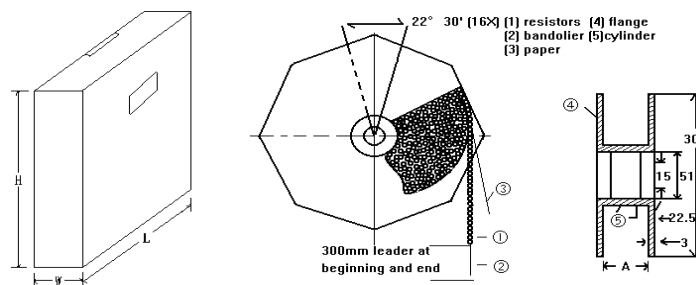
8. Packing

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



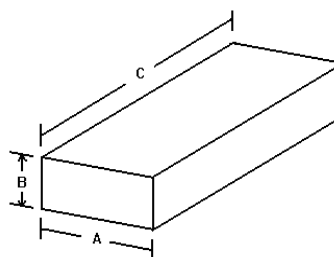
Type	O ± 1	P ± 0.3	W(A) ± 5	H(B) ± 5	L(C) ± 5	Quantity/box
ZOT0/ZOC0 1/8W	52	5	75	70	255	5,000PCS
ZOT0/ZOC0 1/4W	52	5	75	98	255	5,000PCS

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