Innovative Service Around the Globe YAGEO

DATA SHEET

ZERO OHM RESISTORS

ZOR Series

1/6W AND 1/4W

RoHS compliant & Halogen Free



YAGEO

Product specification – April 1, 2024 V.2





APPLICATIONS

- All general purpose applications

FEATURES

- AEC-Q200 qualified
- High stable performance and high reliability
- Suitable for automatic machine insertion
- RoHS compliant and halogen free

ORDERING INFORMATION

Part number of the zero ohm resistors is identified by the series, power rating, tolerance, packing, temperature coefficient, forming and resistance value.

PART NUMBER

ZOR	-25	-	T	-	52-	0R
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) SERIES NAME

ZOR Series

(2) POWER RATING

-12 = 1/6W
-25 = 1/4W

(3) TOLERANCE

- = Based on spec.

(4) PACKAGING

R = Reel Pack
B = Bulk
T = Box Pack

(5) TEMPERATURE COEFFICIENT OF RESISTANCE

- = Based on spec.

(6) FORMING

26- = 26mm
FT = FT Type Forming
52- = 52.4mm
PN = PANAsert
M = M-Type Forming
AV = AVIsert
MT = MT Type Forming

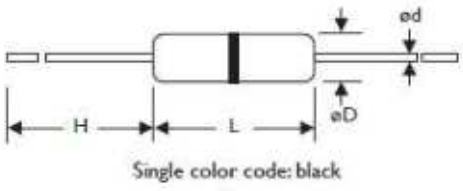
Note: 26mm and 52.4mm represent dimension A of the axial type, please refer to the category of AXIAL/REEL TAPE SPECIFICATION for the detail.

(7) RESISTANCE VALUE

0R = 0Ω

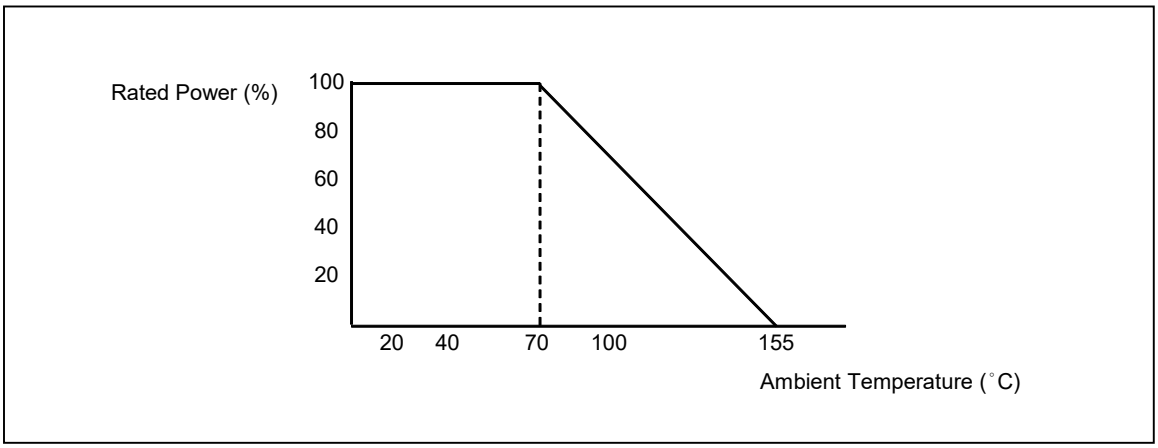
DIMENSIONS

Unit: mm



Normal	L	ψD	H	ψd
ZOR-12	3.3 ± 0.4	1.8 ± 0.3	28 ± 2.0	0.45 ± 0.05
ZOR-25	6.3 ± 0.5	2.3 ± 0.3	28 ± 2.0	0.55 ± 0.05

DERATING CURVE



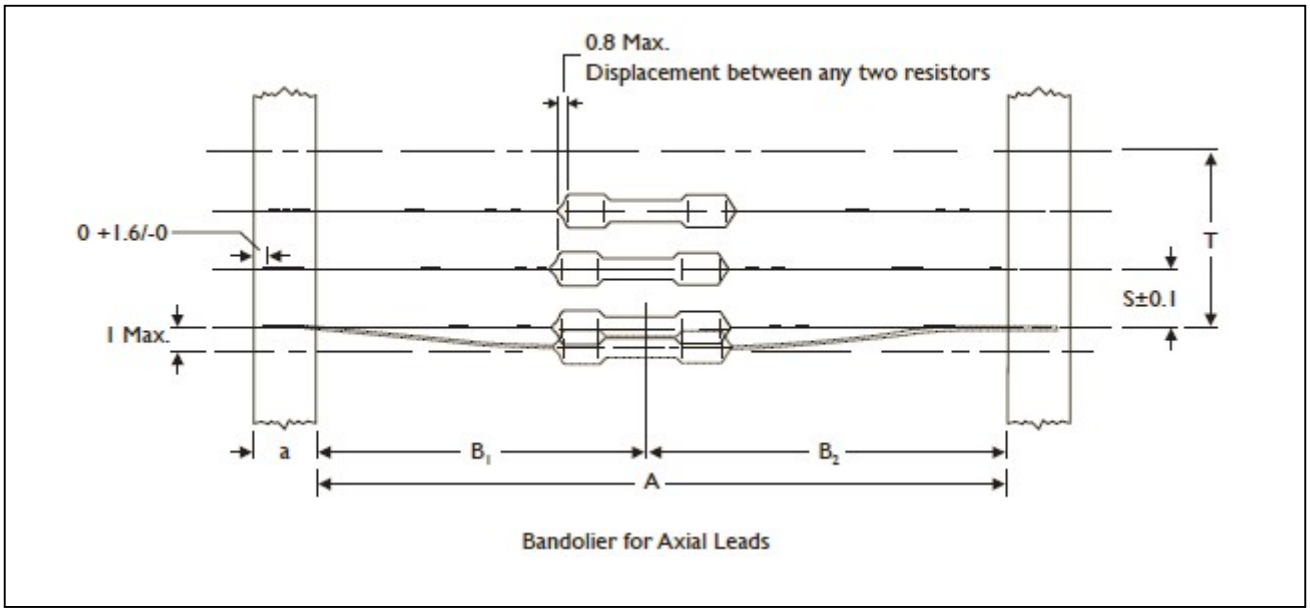
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS		ZOR-12, ZOR-25
Maximum Resistance		10mΩ or less
Min. Insulation Resistance	Dry	10,000MΩ
	Wet	100MΩ
Min. Dielectric Withstanding Voltage	Atmospheric	500V RMS
	Reduced	325V RMS
Insulation Flammability		Resistor insulation is self extinguishing within 10 Sec. after externally applied flame is removed
Current Rating		10 AMPS at 70°C for 1/4W 8 AMPS at 70°C for 1/6W
Operating Temperature Range		-55°C to +155°C

TEST AND REQUIRMENTS

TEST	TEST METHOD	PROCEDURE	APPRAISE
Solderability	IEC 60115-1 4.17	245±5°C for 3±0.5 Sec.	95% Min. coverage
Solvent Resistance of Marking	IEC 60115-1 4.30	IPA for 5±0.5 Min. with ultrasonic	No deterioration of coatings and markings
Robustness of Terminations	IEC 60115-1 4.16	Direct load for 10 Sec. in the direction of the terminal leads	≥2.5Kg(24.5N)D

AXIAL / REEL TAPE SPECIFICATION

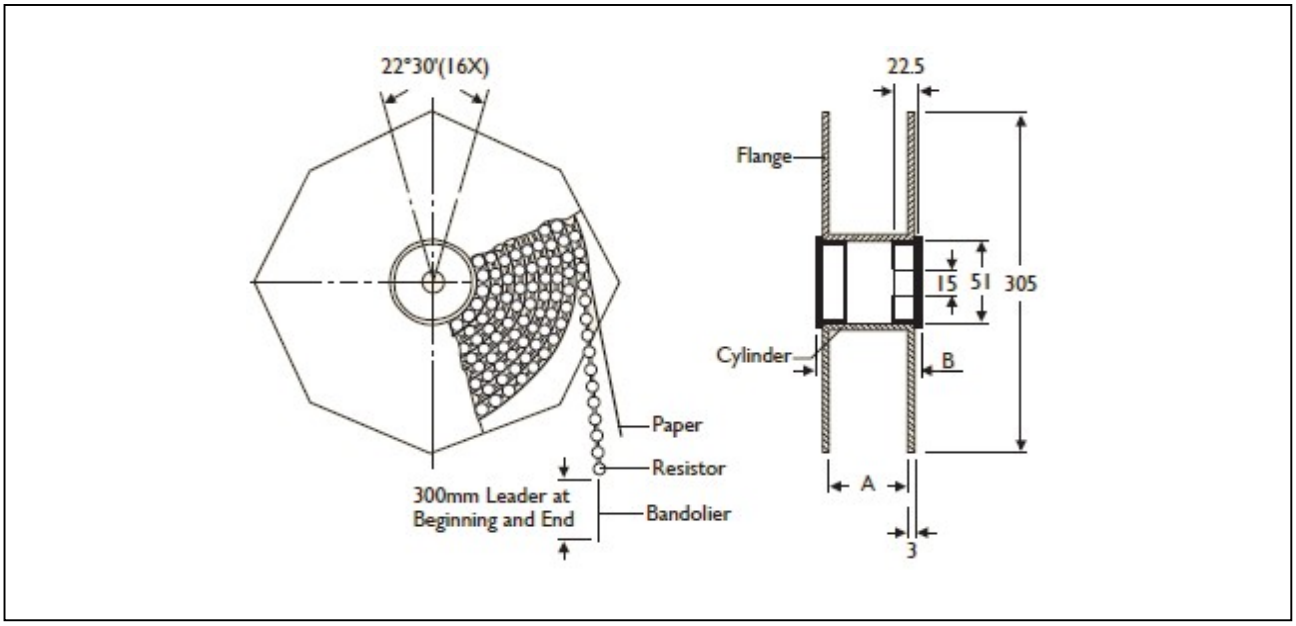


Bandolier for Axial Leads

Unit: mm

Normal	a	A	B1-B2 (Max.)	S (spacing)	T (max. deviation of spacing)
ZOR-12	6 ± 0.5	52.4 ± 1.5	1.2	5	1 mm per 10 spacing, 0.5 mm per 5 spacing
		26.0 ± 1.5	1.0		
ZOR-25	6 ± 0.5	52.4 ± 1.5	1.2	5	
		26.0 ± 1.5	1.0		

TAPE ON REEL PACKING

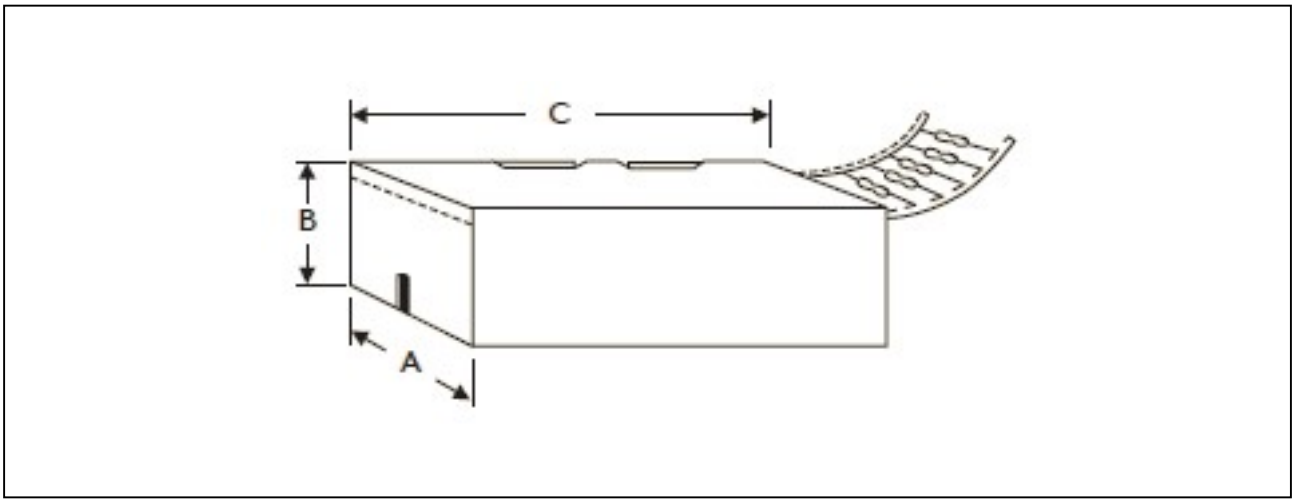


TYPE

Unit: mm/piece

Normal	Across Flange(A)	B	Quantity Per Reel
ZOR-12	66.5	75.5	5,000
ZOR-25	66.5	75.5	5,000

TAPE ON BOX PACKING



TYPE DIMENSIONS Unit: mm/piece

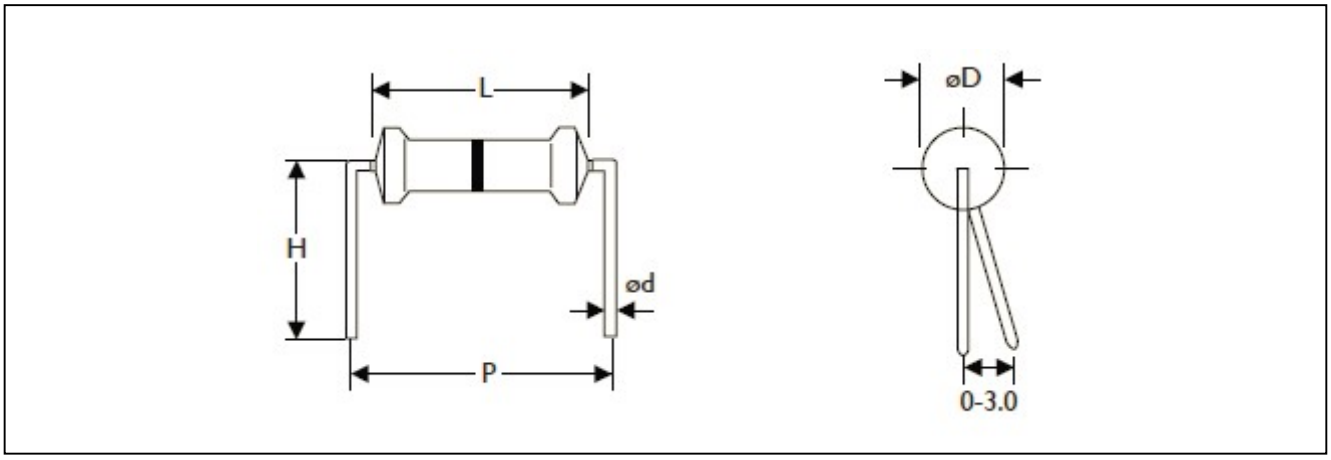
Normal	A	B	C	Quantity Per Box
ZOR-12	48	102	255	5,000
ZOR-12	81	70	260	5,000

BULK PACKING

Normal	Piece/Per Inner Box	Bag/Per Inner Box	Piece Per Bag
ZOR-12	10,000	10	1,000
ZOR-25	10,000	10	1,000

FORMING

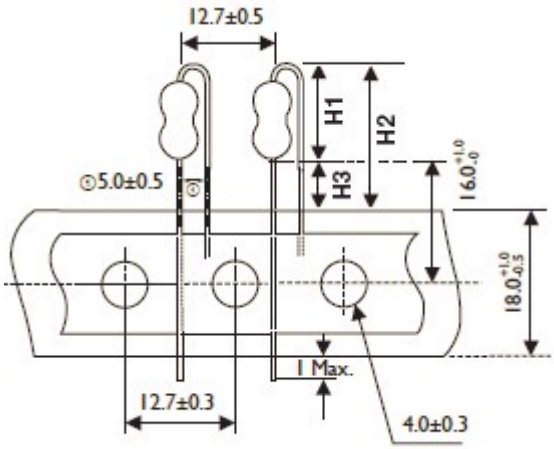
M TYPE



TYPE DIMENSIONS Unit: mm

Normal	L	ψD	ψd	P	H
ZOR-12	3.3± 0.4	1.8 ± 0.3	0.45 ± 0.05	6.0 ± 1	10.0 ±1
ZOR-25	6.3 ± 0.5	2.3 ± 0.3	0.55 ± 0.05	10.0 ± 1	10.0 ± 1

FT TYPE (Taping Pack)

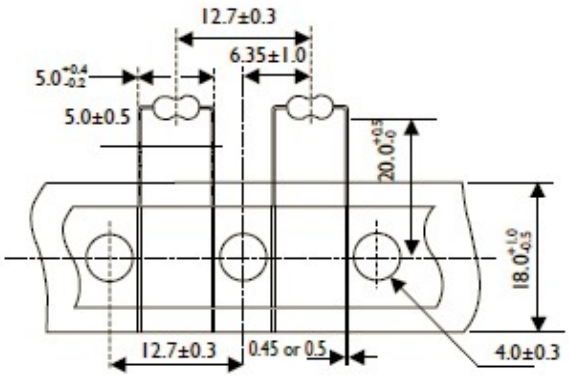


TYPE DIMENSIONS Unit: mm

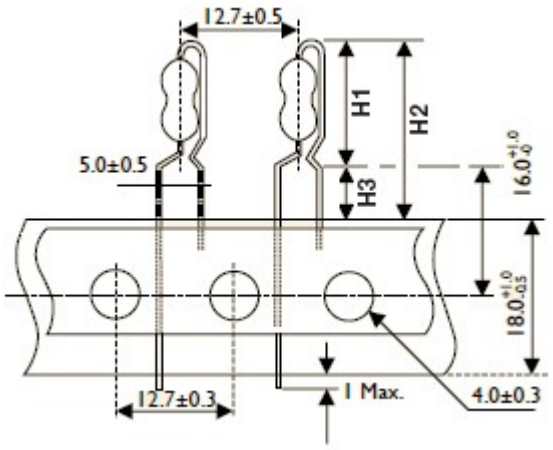
Normal	H1 Max.	H2 Max.	H3 Max.
ZOR-25	10	18.5	8.5

MT TYPE (Taping Pack)

Rated Watts : 1/6W

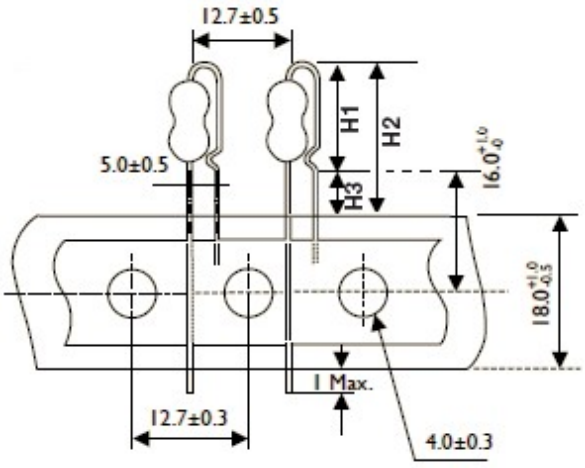


PN TYPE (Taping Pack)



TYPE	DIMENSIONS		Unit: mm
Normal	**H1 Max.**	**H2 Max.**	**H3 Max.**
ZOR-25	13	21.5	8.5

AV TYPE (Taping Pack)



TYPE	DIMENSIONS		Unit: mm
Normal	**H1 Max.**	**H2 Max.**	**H3 Max.**
ZOR-25	11.5	20	8.5

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 2	Apr.1, 2024	-	- Added forming code description for part number
Version 1	Aug. 31, 2023	-	- Revised LEGAL DISCLAIMER
Version 0	Aug. 2, 2021	-	- First issue of this specification

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