

Data Sheet

Customer:

Product: Wire Wound Fusible Leaded Resistor—WFR Series

Sizes.: 0932 / 1145 / 1550 / 1765 / 2485

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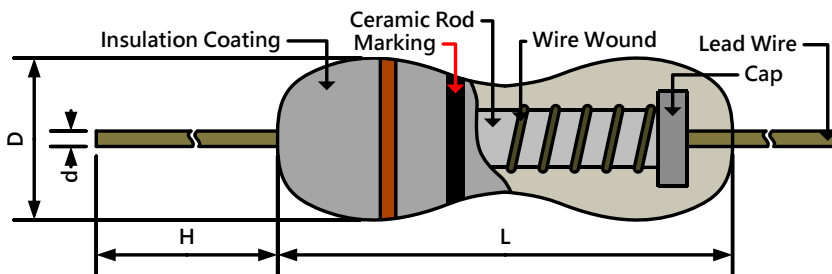
Produced by (QC)	Checked (QC)	Approved by (QC)	Prepared by (Sales)	Accepted by (Customer)
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Wire Wound Fusible Leaded Resistor

Features

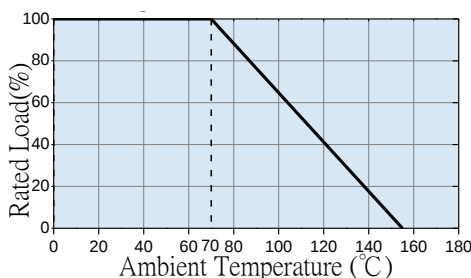
- Superior quality fusible Wire wound resistors which are flameproof during operation
- Complete Flameproof Construction UL-94V-0
- The resistors are suitable for processing on automatic insertion equipment and cutting and bending machines
- Metal end caps are force fitted to the element prior to spiraling
- Tinned copper lead wires are welded to the end caps and the components are then coated with four layers of a flameproof cement
- All resistors are tested for value and tolerance

Dimensions



Type	L mm	D mm	H mm	D mm
WFR0932	9.0±0.5	3.2±0.5	26±2.0	0.65±0.03
WFR1145	11.5±1.0	4.5±0.5	35±2.0	0.78±0.03
WFR1550	15.5±1.0	5.0±0.5	32±2.0	0.78±0.03
WFR1765	17.5±1.0	6.5±0.5	35±2.0	0.78±0.03
WFR2485	24.5±1.0	8.5±0.5	35±2.0	0.78±0.03

Derating Curve



Part Numbering

WFR	1550	J	A	4	R	R100
Product Type	Dimensions (L×D)	Resistance Tolerance	Packaging Code	TCR (PPM/°C)	Power Rating	Resistance
	0932: 9.0x3.2 1145: 11.5x4.5 1550: 15.5x5.0 1765: 17.5x6.5 2485: 24.5x8.5	G: ±2% J: ±5%	A: Ammo B: Bulk	4: ±350	U: 1/2W T: 1W S: 2W R: 3W D: 5W E: 7W	R100: 0.1Ω 0010: 1Ω 0100: 10Ω 1000: 100Ω

Standard Electrical Specifications

Item Type	Power Rating at 70°C	Operating Temp. Range	Max. Working Voltage	Resistance Range		TCR (±PPM/°C)
				±2%	±5%	
0932	1/2W	-40 ~ +155°C	250V	0.1Ω - 47Ω		±350
1145	1W	-40 ~ +155°C	300V	0.1Ω - 100Ω		±350
1550	2W	-40 ~ +155°C	350V	0.1Ω - 150Ω		±350
1765	3W	-40 ~ +155°C	500V	0.1Ω - 330Ω		±350
2485	5W	-40 ~ +155°C	500V	0.1Ω - 390Ω		±350

High Power Rating Electrical Specifications

Item Type	Power Rating at 70°C	Operating Temp. Range	Max. Working Voltage	Resistance Range		TCR (±PPM/°C)
				±2%	±5%	
0932	1W	-40 ~ +155°C	300V	0.1Ω - 47Ω		±350
1145	2W	-40 ~ +155°C	350V	0.1Ω - 100Ω		±350
1550	3W	-40 ~ +155°C	400V	0.1Ω - 150Ω		±350
1765	5W	-40 ~ +155°C	700V	0.1Ω - 330Ω		±350
2485	7W	-40 ~ +155°C	700V	0.1Ω - 390Ω		±350

Rated continuous working voltage(RCWV)= $\sqrt{P \cdot R}$

■Storage Temperature: 0°C~35°C ; Humidity: 25%~65%

■Shelf life: 1 years max

■Resistor body color : Grey

The resistors are marked with a 4 colors band code indicating the value.

Standard power rating the fifth code is Black

High power rating the fifth code is Gold

Ratings And Characteristics

Item	Requirement
Temperature Coefficient	±350ppm
Short Time Overload	±(2%+0.05Ω)
Insulation Resistance Min Dry	1000MΩ
Load Life	±(5%+0.05Ω)
Solderability	95% min. Coverage
Dielectric Withstanding Voltage	≥ 300V
Terminal Strength	Tensile: ≥ 2.5kg

Fusing Characteristics

Type	Magnification of Power Rating		Fusing Time
	X36	X25	
0932	0.1Ω - 1.8Ω	2Ω - 47Ω	60sec max
1145	0.1Ω - 1.8Ω	2Ω - 100Ω	
1550	0.1Ω - 1.8Ω	2Ω - 150Ω	
1765	0.1Ω - 1.8Ω	2Ω - 330Ω	
2485	0.1Ω - 1.8Ω	2Ω - 390Ω	

The above power rating and fusing time for standard fusible resistors, other spec. on request

R≤2Ω Fusing time within 60 seconds at 36 times of rated power

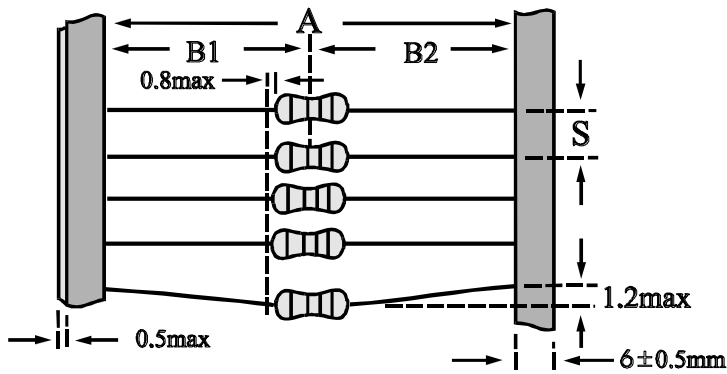
R>2Ω Fusing time within 60 seconds at 25 times of rated power

Fusing residual resistive value at least 100 times rated resistance

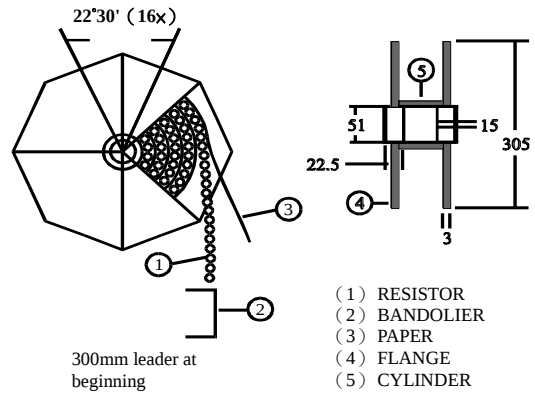
Taping/Packing Specifications

Standard Type (Reel & Ammo)

Packing Methods



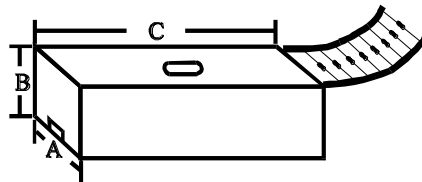
Reel Packing



Unit: mm

Packaging Type	Packing Methods			Reel Packing	
	A	B1-B2 Max	S	Across Flange (A)	Qty
0623	52+1/-0	1.2	5±0.3	72	5,000
	26+0.5/-0	1.0			
0932	52+1/-0	1.2	5±0.3	72	2,500
1145	52+1/-0	1.5	5±0.3	95	2,000
	73+1/-0				
1550	52+1/-0	1.5	10±0.8	95	1,000
	73+1/-0				
2485	88+1/-0	1.5	10±0.8	110	500

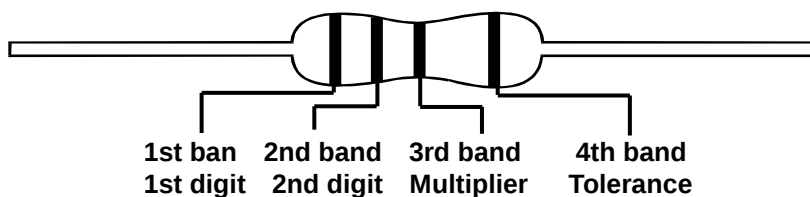
Ammo Packing



Unit: mm

Packaging Type	Packing Methods			Ammo Packing			
	A	B1-B2 Max	S	A	B	C	Qty
0623	52+1/-0	1.2	5±0.3	79±2	100±3	257±5	5,000
	26+0.5/-0	1.0		52±2	109±3	252±5	
0932	52+1/-0	1.2	5±0.3	79±2	58±3	257±5	1,000
1145	52+1/-0	1.5	5±0.3	103±2	82±3	262±5	1,000
	73+1/-0						
1550	52+1/-0	1.5	10±0.8	103±2	96±3	265±5	1,000
	73+1/-0						
2485	88+1/-0	1.5	10±0.8	115±2	73±3	265±5	250

■ Marking & Resistance Tolerance



±2%	E-24	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.6	3.9	4.3	4.7	5.1	5.6	6.2	6.8	7.5	8.2	9.1
±5%																									

Color	Digit	Multiplier	Tolerance	
Without	-	-	-	-
Silver	-	10^{-2}	-	-
Gold	-	10^{-1}	±5.0%	J
Black	0	10^0	-	-
Brown	1	10^1	-	-
Red	2	10^2	±2.0%	G
Orange	3	10^3	-	-
Yellow	4	10^4	-	-
Green	5	10^5	-	-
Blue	6	10^6	-	-
Violet	7	10^7	-	-
Grey	8	10^8	-	-
White	9	10^9	-	-

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version A2	Jun 23 ,2025		-Add description of Features. -Add Storage conditions and Shelf life.