Distributeur : JBG-METAFIX

Data Sheet

Customer:	
Product:	**Wire Wound Leaded Resistors – KNQ Series**
Sizes.:	**0932/1145/1550/1760/2480**
Issued Date:	**29-Aug-25**
Edition:	**REV.A2**

RoHS Compliant

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Wire Wound Leaded Resistors

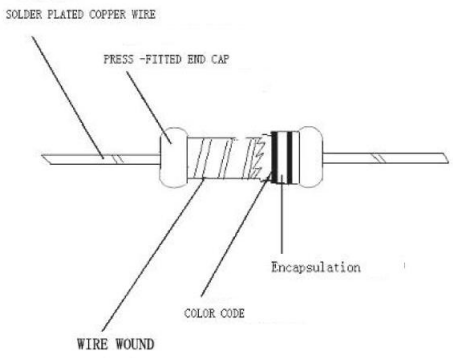
■Features

－Low resistance value
－Flame retardat coating
－Standard tolerance ±5%
－RoHS compliant / lead-free available

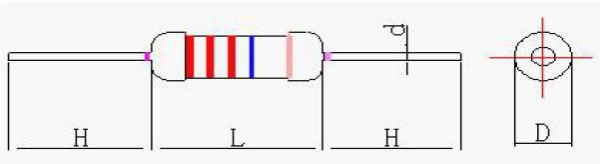
■Applications

－suitable for use in a variety of military electronics power, sampling, start, oscillation circuit, etc.

■Construction



■Dimensions



■Dimensions

Unit: mm

Type	L	D	H	d
KNQ0932	9.0±0.5	3.5±0.5	26±2.0	0.56±0.05
KNQ1145	11.5±1.0	4.5±0.5	34±2.0	0.65±0.05
KNQ1550	15.0±1.0	5.0±0.5	33±2.0	0.70±0.05
KNQ1760	17.0±1.0	6.0±0.5	32±2.0	0.70±0.05
KNQ2480	24.0±1.0	8.0±0.5	28±2.0	0.70±0.05

■Part Numbering

KNQ	0932	J	A	G	U	1000
Product Type	Dimensions (L×D)	Resistance Tolerance	Packaging Code	TCR (PPM/°C)	Power Rating	Resistance
	0932: 9.0x3.5 1145: 11.5x4.5 1550: 15.0x5.0 1760: 17.0x6.0	J: ±5%	A: Ammo B: Bulk	G: ≦300	U: 1/2W T: 1W S: 2W R: 3W D: 5W	R100: 0.1Ω 0010: 1Ω 0100: 10Ω 1000: 100Ω

Wire Wound Leaded Resistors

■Standard Electrical Specifications

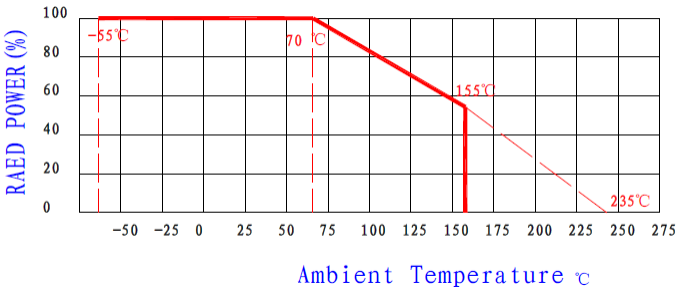
Item / Type	Power Rating at 70°C	Operating Temp. Range	Dielectric Withstanding Voltage	Resistance Range ±5%	TCR (PPM/°C)
0932	1/2W	-55 ~ +155°C	300V	0.1Ω~300Ω	≦300
1145	1W		350V	0.1Ω~500Ω	≦300
1550	2W		350V	0.1Ω~1KΩ	≦300
1760	3W		500V	0.1Ω~1.5KΩ	≦300
2480	5W		500V	0.1Ω~2.5KΩ	≦300

■High Power Rating Electrical Specifications

Item / Type	Power Rating at 70°C	Operating Temp. Range	Dielectric Withstanding Voltage	Resistance Range ±5%	TCR (PPM/°C)
0932	1W	-55 ~ +155°C	300V	0.1Ω~500Ω	≦300
1145	2W		350V	0.1Ω~500Ω	≦300
1550	3W		350V	0.1Ω~1KΩ	≦300
1760	5W		500V	0.1Ω~1.5KΩ	≦300

■Resistor body color : Grey

■Derating Curve



■Rated Voltage

Rated voltage is defined as the DC or AC (effective Value at commercial frequency example 50 C/S,60 C/S)，

Voltage when rated power is applied and can be calculated By the following

$V=\sqrt{(P*R)}$

When the calculated rated voltage exceeds the Maximum usable voltage flue shown in CHART, the Maximum usable voltage is defined as the voltage According to the power-decreasing curve shown in CHART.

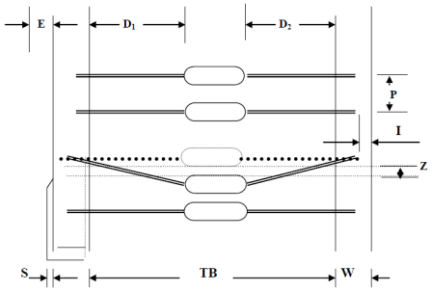
■Environmental Characteristics

Item	Requirement	Test Method
Short Time Overload	≦±(2%R+0.05Ω) Shall be no mechanical breakage	AC or DC voltage 2.5 times the rated voltage for 5 seconds
Endurance	≦±(5%R+0.05Ω) Shall be no mechanical breakage	70°C, apply rated voltage for 1000 hrs with 1 hrs “ON” and 0.5 hrs “OFF”
Damp Heat with Load	≦±(5%R+0.1Ω) Shall be no mechanical breakage	40±2°C, 90~95% R.H. apply rated voltage for 1000 hrs with 1.5 hrs “ON” and 0.5 hrs “OFF”
Solderability	95% min. Coverage	260±5°C for 5±0.5 seconds
Voltage Endurance	No breakdown or flashover	Place the resistor in the "V" slot and hold for one minute, as shown in specifications
Temperature Coefficient of Resistance (T.C.R)	≦300PPM	$PPM/℃ = \frac{R-R_0}{R_0} * \frac{10^6}{T-T_0}$ R = Measured resistance（Ω）at T Ro = Measured resistance （Ω）at To T = Measured test temperature(°C) To = Measured base temperature(°C)
Resistance To Soldering Heat	≦±(2%R+0.05Ω) Shall be no mechanical breakage	Dip the lead in to a solder bath having a temperature of 350 ±10°C up to 3±0.05mm from the body of the resistor and hold it for 3.5±0.5seconds leave the resistor ,at room temperature 1 hours after ,then Measure
Terminal Strength	Shall be no mechanical breakage	Pull test apply 3.5KG force to the lead in the direction of lead axis for 30±5 seconds
Vibration	Shall be no mechanical breakage	set a resistor at the vibration table and vibrate 10HZ—55HZ 10HZ/s. with 1.5mm amplitude in 1 min. when the change of frequency shall be completed uniformly. the vibration shall apply to 3 directions, vertical and horizontal to the axis of resistor each for 3h.
Endurance at upper-limit temperature	≦±(5%R+0.1Ω)	At 125°C temperature, duration of 1000h

■Storage Temperature: 30±5℃ ; Humidity: < 65% RH

■Shelf life: 2 years Max

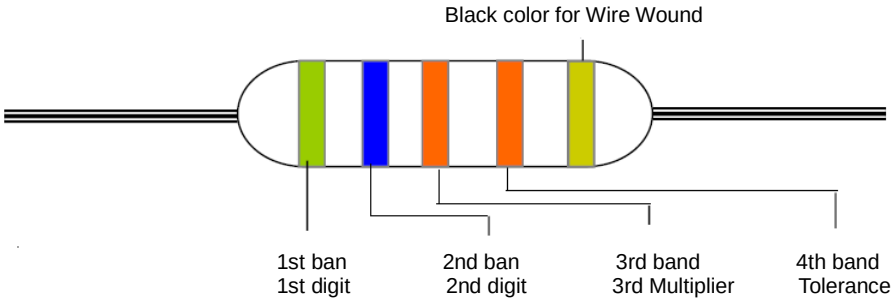
■Taping/Packing Specifications



Unit: mm

Packaging / Type	Packing Methods								Ammo Packing
	TB	P	W	D1-D2 MAX	E MAX	Z MAX	S MAX	I MAX	Qty
0932	52±1.5	5±0.5	6±0.5	0.8	0	1.2	0.8	3.2	2,500
1145	73±1.5	5±0.5	6±0.5	0.8	0	1.4	0.8	3.2	1,000
1550	73±1.5	10±0.5	6±0.5	0.8	0	1.4	0.8	3.2	1,000
1760	73±1.5	10±0.5	6±0.5	0.8	0	1.4	0.8	3.2	500
2480	73±1.5	10±0.5	6±0.5	0.8	0	1.4	0.8	3.2	250

■Marking



Cold	Digit	Multiplier	Tolerance	
Without	-	-	-	-
Silver	-	10^{-2}	-	-
Gold	-	10^{-1}	±5.0%	J
Black	0	10^{0}	-	-
Brown	1	10^{1}	±1.0%	F
Red	2	10^{2}	-	-
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 A1	01-Apr-2025		-Add Storage conditions and Shelf life.
Version A2	29-Aug-2025		-Modify KNQ1145 Dimensions H specifications and Packing Methods TB specifications.