

# KNP SERIES

## SMALL SIZE WIRE WOUND RESISTORS

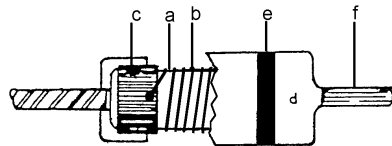


STANDARD TYPE **KNP**(1W, 2W, 3W, 4W, 5W, 6W)

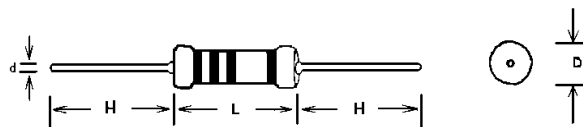
### FEATURES:

- SPEC PER IEC 115-4, MIL-11804.
- STANDARD TOLERANCE:  $\pm 1\%$ (F),  $\pm 2\%$ (G) &  $\pm 5\%$ (J).
- NON FLAMMABLE.
- LOW NOISE, LOW T.C.R.
- HIGH POWER IN SMALL SIZE.

### CONSTRUCTION



- A) CERAMIC CORE (HIGH CONDUCTIVITY)
- B) HIGH STABLE RESISTANCE WIRE
- C) END CAP (TINNED IRON)
- D) NONFLAME LACQUER (SOLVENT-PROOF, RESISTIVE TO HEAT & HUMIDITY)
- E) COLOR CODE PER IEC & EIA STANDARDS (4 RINGS)
- F) TINNED COPPER WIRE (RELIABLE SOLDERABILITY)



### DIMENSIONS:

TYPE NO.	DIMENSIONS				
	WATT	$L \pm 1.5\text{mm}$	$D \pm 0.5\text{mm}$	$d \pm 0.05\text{mm}$	$H \pm 3.0\text{mm}$
KNP100S	1W	9	3.3	0.6	28
KNP200S	2W	11	4.3	0.8	35
KNP300S	3W	15	4.8	0.8	35
KNP400S	4W	18	5.8	0.8	35
KNP500S	5W	18	5.8	0.8	35
KNP600S	6W	24	7.8	0.8	38

SPECIAL SIZES, VALUES AND SPECIFICATIONS NOT LISTED AVAILABLE ON SPECIAL ORDER.

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### CHARACTERISTICS:

ITEM	POWER RATED (70 °C)		KNP 100S 1W	KNP 200S 2W	KNP 300S 3W	KNP 400S 4W	KNP 500S 5W	KNP 600S 6W
	MAX WORKING VOLTAGE			350V	350V	350V	500V	500V
MAX OVERLOAD VOLTAGE			600V	700V	700V	1000V	1000V	1000V
MAX INTERMITTENCE OVERLOAD VOLTAGE			350V	600V	600V	1000V	1500V	1500V
DIELECTRIC WITHSTANDING VOLTAGE			350V	600V	600V	1000V	1000V	1000V
RESISTANCE TOLERANCE			± 1%(F) ± 2%(G) ± 5%(J)	± 1%(F) ± 2%(G) ± 5%(J)	± 1%(F) ± 2%(G) ± 5%(J)	± 1%(F) ± 2%(G) ± 5%(J)	± 1%(F) ± 2%(G) ± 5%(J)	± 1%(F) ± 2%(G) ± 5%(J)
RESISTANCE RANGE	MIN		0.1R	0.1R	0.1R	0.1R	0.1R	0.1R
	MAX		100R	470R	560R	820R	820R	1200R

NOTE: RATED CONTINUOUS WORKING VOLTAGE (RCWV) SHALL BE DETERMINED FROM  
 $RCWV = \sqrt{\text{POWER RATING} \times \text{RESISTANCE VALUE}}$

### PERFORMANCE SPECIFICATIONS :

CHARACTERISTIC	SPECIFICATIONS			TEST METHODS
DC RESISTANCE	J(± 5%)			AT 25
TEMPERATURE COEFFICIENT	0R1-1R	1R1-10R	OVER 11R	RESISTANCE VALUE AT ROOM TEMPERATURE AND ROOM TEMPERATURE + 100
	± 500PPM/	± 200PPM/	± 100PPM/	
SHORT TIME OVER LOAD	± (1% ± 0.05R)			2.5 TIME RCWV 5 SEC.
INSULATION RESISTANCE	1000MOHM MIN.			V-BLOCK
LOAD LIFE	± (5% ± 0.05R)			70 , 1000 HRS.
LOAD LIFE IN HUMIDITY	± (5% ± 0.05R)			40 , 90-95%RH, 1000 HRS.
TEMPERATURE CYCLING	± (1% ± 0.05R)			- 25 /105 , 5 CYCLING.
RESISTANCE TO SOLDERING HEAT	± (1% ± 0.05R)			350 , 3.5 SEC. 260 , 10 SEC.
SOLDERABILITY	95% COVERAGE MINIMUM			235 , 2 SEC.