

# WIRE WOUND RESISTOR

KNP (FLAME – PROOF COATING TYPE)  
 NKNP (NON – INDUCTIVE TYPE)

## INTRODUCTION

### KNP

To wind the alkalineless ceramic core with metal alloy resistance wire and coating with silicon resin which makes wire wound resistor KNP series.

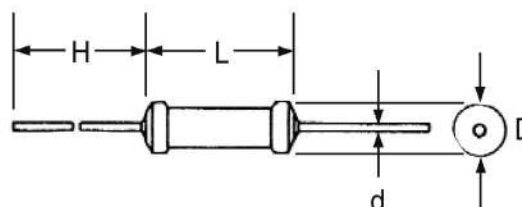
## CHARACTERISTICS

REQUIREMENTS	CHARACTERISTICS	TEST METHOD
TEMPERATURE COEFFICIENT	$\pm 350\text{PPM}/^\circ\text{C}$ , Special : low to 25PPM, high to 1, 500PPM	JIS, C, 5201, 4.8
INSULATION RESISTANCE	$> 1,000\text{M}\Omega$	JIS, C, 5201, 4.6
LOAD LIFE (1,000 HOURS)	$\pm (3\% + 0.05\Omega)$	JIS, C, 5201, 4.25.1
SHORT – TIME OVERLOAD	$\pm (2\% + 0.05\Omega)$	JIS, C, 5201, 4.13
DIELECTRIC WITHSTANDING VOLTAGE	$\pm (1\% + 0.05\Omega)$	JIS, C, 5201, 4.7
MOISTURE RESISTANCE	$\pm (3\% + 0.05\Omega)$	JIS, C, 5201, 4.24
SHOCK AND VIBRATION	$\pm (1\% + 0.05\Omega)$	JIS, C, 5201, 4.22
EFFECT OF SOLDERING	$\pm (1\% + 0.05\Omega)$	JIS, C, 5201, 4.18
INCOMBUSTIBILITY	1~16 Times E= $\sqrt{\text{PXR}}$ , 5 Min.	

\* As variances through measuring, an additional +0.05 is added to the change rate above.

## FEATURES

- High stable pulse characteristics!
- Super heat dissipation!
- Instant overload capability!
- Low noise!
- No annual shift on resistance value!
- Tolerance available :  $\pm 5\%$ ,  $\pm 2\%$ ,  $\pm 1\%$
- High voltage and special tight tolerance are available on request!



TYPE	POWER RATING @70°C	DIMENSIONS (mm)				RESISTANCE RANGE ( $\Omega$ )		
		L $\pm 2.5$	D $\pm 1.5$	H $\pm 3$	d $\pm 0.1$	STANDARD	SPECIAL	
							HIGH	LOW
KNP-25	1/4W	6.0	2.3	25	0.54	0.1 ~60	150	0.0067
KNP-50	1/2W	9.0	3.2	25	0.58	0.1 ~100	350	0.0019
KNP-50S	1/2W	9.0	3.2	25	0.58	0.1 ~100	350	0.0019
KNP-100S	1W	9.0	3.2	25	0.58	0.1 ~100	350	0.0019
KNP-100	1W	11	4.5	35	0.75	0.1 ~100	600	0.0017
KNP-200S	2W	11	4.5	35	0.75	0.1 ~100	600	0.0017
KNP-200	2W	15	5.0	35	0.75	0.1 ~100	1.2K	0.0020
KNP-300S	3W	15	5.0	35	0.75	0.1 ~100	1.2K	0.0020
KNP-300	3W	17	6.0	35	0.75	0.1 ~100	1.5K	0.0025
KNP-400	4W	17	6.0	35	0.75	0.1 ~100	1.5K	0.0025
KNP-500S	5W	15	5.0	35	0.75	0.1 ~100	1.2K	0.0020
KNP-500	5W	17	6.0	35	0.75	0.1 ~100	1.5K	0.0025
KNP-500B	5W	24	8.0	35	0.75	0.1 ~100	2.9K	0.0028
KNP-600	6W	24	8.0	35	0.75	0.1 ~100	2.9K	0.0028
KNP-700S	7W	24	8.0	35	0.75	0.1 ~100	2.9K	0.0028
KNP-700	7W	39	8.0	28	0.75	0.1 ~100	3.9K	0.0040
KNP-800	8W	39	8.0	28	0.75	0.1 ~100	3.9K	0.0040
KNP-1000S	10W	39	8.0	28	0.75	0.1 ~100	3.9K	0.0040
KNP-1000	10W	52	8.0	35	0.75	0.1 ~100	5.8K	0.0047

\* NKNP series have the same specifications as KNP series except non – inductive characteristics.

\* Stamp of marking for 7W and up.