ROYALOHM

Anti-Surge Wire-Wound Fixed Resistors

Performance Specification

Temperature Coefficient	<20Ω: ±400PPM/°C; ≥20Ω: ±300PPM/°C
Short Time Overload	\pm (2.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Pulse Overload	$\pm (5.0\% + 0.05\Omega)$ Max, with no evidence of mechanical damage.
Terminal Strength	No evidence of mechanical damage.
Resistance to Soldering Heat	\pm (1.0% + 0.05 Ω)Max, with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Temperature Cycling	\pm (2.0% + 0.05 Ω)Max, with no evidence of mechanical damage.
Load Life In Humidity	$\pm (5.0\% + 0.05\Omega)$ Max, with no evidence of mechanical damage.
Load Life	$\pm (5.0\% + 0.05\Omega)$ Max, with no evidence of mechanical damage.
Non-Flame	No evidence of flaming or arcing
Surge Immunity (IEC 61000-4-5)	±(5.0% + 0.05Ω)Max.

Ordering Procedure: Ex.: KNP 1W, +/-5% 100Ω, T/B-1000, AntiSurge

K N	Р	Α	1	W	J	0	1	0	1	Α	1	0
Type: KNP = KNP ∢			Watta Norma W2 = 1W = 9W = AW = Small 1S = 9S = AS =	al 1/2W 1W 9W 10W 1W-S 		 E-2: 1st (2nd figu "J" ?? . E-9 1st 1 figu the of z 	tance Val 4 series: digit is "0" & 3 rd digits indicates th ~ 0.1 , "K" $\sim 1.7 \Omega \sim 47$ 6 series: to 3 rd digits thres of the i 4 th digit inco teros: 1.33K = 1	are the sig resistance le number - 0.01 7J, 4.7KΩ are the sig resistance licates the	of zeros: ~ 472 gnificant and number g Type: %Box %Reel			
		Tolerance: F = ±1% G = ±2% J = ±5% K = ±10%			Packing Qty: 1 = 1,000 pcs. A = 500 pcs. B = 2,500 pcs.(for T/R) 0 = Bulk/Box Additional Information: 0 = PT-52mm, PT-26mm, Standard lead wire for B 8 = PT-58mm 9 = PT-64mm				Bulk/Boy			



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Features

- · Color coating is "Green"
- Excellent flame resistance
- Too low or too high ohmic value can be supplied on a case to case basis
- Special Fusing Wire-Wound Resistors can be supplied on a case to case basis
- Special Anti-Surge function items available (per IEC 61000-4-5)



Standard : 2% ,5% ,10% -- E - 24 series 1% -- E - 96 series



Part No. Style	Power rating at 70°c		Di	mension	(mm)	Std	High	Max		
		D(max)	L(max)	H±3	d±0.05	PT	Resistance Range	Resistance Range	Surge Voltage	
Normal Size										
KNPAW2	KNP 50	1/2W (0.50W)	3.5	10.0	28	0.54	52	10Ω~39Ω	40Ω~560Ω	4KV
KNPA1W	KNP 100	1W	5.0	12.0	25	0.70	52	10Ω~50Ω	51Ω~1ΚΩ	5KV
KNPA2W	KNP 200	2W	5.5	16.0	28	0.70	64	10Ω~120Ω	121Ω~2KΩ	6KV
KNPA3W	KNP 300	3W	6.5	17.5	28	0.75	64	10Ω~200Ω	201Ω~3KΩ	7KV
KNPA5W	KNP 500	5W	8.5	25	38	0.75	B/B	10Ω~470Ω	471Ω~5ΚΩ	9KV
KNPA7W	KNP 700	7W	8.5	30	38	0.75	B/B	10Ω~470Ω	471Ω~6ΚΩ	10KV
KNPA8W	KNP 800	8W	8.5	40	38	0.75	B/B	10Ω~1.5KΩ	1.6KΩ~10KΩ	10KV
KNPA9W	KNP 900	9W	8.5	53	38	0.75	B/B	10Ω~1.5KΩ	1.6KΩ~15KΩ	10KV

Note: For KNPA Series Max. Working Voltage: 500V

Max. Overload Voltage: 1,000V

Dielectric Withstanding Voltage: 1/2W : 350V, >1/2W : 500V

The following are available on case to case basis:

- Low and high resistance
- Small size
- Higher surge voltage

Derating Curve











