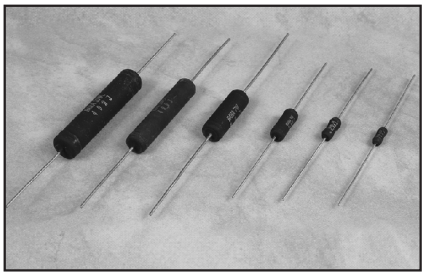
Precision Wire Wound Resistors

- Complete Welded Construction
- Wide Resistance Range: 0.1Ω~100KΩ
- Tolerance from 0.05%
- Available on Tape: 1W to 10W
- High Temperature Resistent Silicone Coating
- Available in Non-Inductive Style (Type N)
- Special Matching Available (T.C.R. and Tolerance)



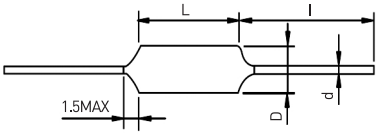
GENERAL SPECIFICATIONS

Model	Power Rating[W]	Maximum Working Voltage[V]	Resistance Range[Ω]		Resistance Tolerance(%)
			W*	N**	
PWR 0.5	0.5	20	0.1 ~ 3K	0.1 ~ 1.5K	A [±0.05]
PWR 1	1	50	0.1 ~ 8K	0.1 ~ 3K	B [±0.1]
PWR 2	2	100	0.1 ~ 10K	0.1 ~ 4K	C [±0.25]
PWR 3	3	200	0.1 ~ 18K	0.1 ~ 9K	D [±0.5]
PWR 5	5	400	0.1 ~ 35K	0.1 ~ 17K	F [±1]
PWR 7	7	450	0.1 ~ 50K	0.1 ~ 25K	G [±2]
PWR 10S	10	700	0.1 ~ 70K	0.1 ~ 35K	
PWR 10L	10	800	0.1 ~ 100K	0.1 ~ 50K	

W*: Inductive, N**: Non-inductive

DIMENSIONS [mm]

Model	Dimensions [mm]			
	D±0.8	L±1.5	d±0.02	l±3
PWR 0.5	3.30	10.0	0.7	37
PWR 1	4.00	12.0	0.8	37
PWR 2	4.70	13.8	0.8	35
PWR 3	5.90	15.7	0.8	35
PWR 5	8.52	22.5	0.8 / 1.0	44 / 35
PWR 7	8.52	24.5	0.8 / 1.0	44 / 35
PWR 10S	8.52	39.2	0.8 / 1.0	35
PWR 10L	10.5	46.2	0.8 / 1.0	33



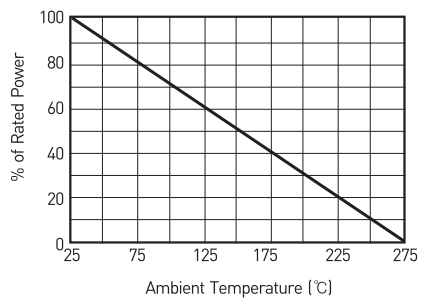
CHARACTERISTICS

Values in [ ] mean change in Ω after test

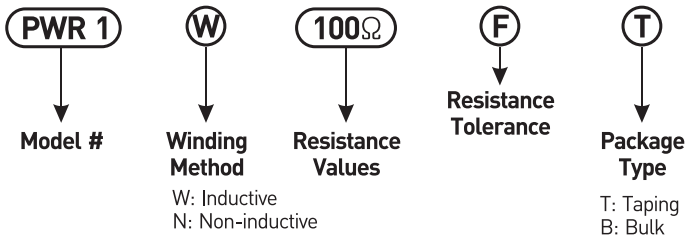
Insulation Resistance	1GΩ min. dry.	DC500V, 1 minute
Dielectric Withstanding Voltage	±[0.1%+0.05Ω]	500VAC, 1 minute
Temperature Coefficient		~0.99Ω: ±90ppm/℃, 1~9.9Ω: ±50ppm/℃, 10Ω~: ±20ppm/℃
Short Time Overload	±[0.2%+0.05Ω]	1W-3W: 5 x Power rating, 5 seconds 5W-10W: 10 x Power rating, 5 seconds
Thermal Shock	±[0.2%+0.05Ω]	-65℃(30minutes), 25℃, 150℃ (30minutes), 25℃, 5cycles
Low Temperature Storage	±[0.2%+0.05Ω]	-65℃ for 24 hours
High Temperature Exposure	±[0.5%+0.05Ω]	275℃ for 2 hours
Terminal Strength	±[0.1%+0.05Ω]	4.5kg for 10 seconds
Solderability	95% coverage minimum	230℃ for 5 seconds
Load Life	±[0.5%+0.05Ω]	Power Rating 90minutes on, 30minutes off, 2000 hours

*NOTE : Applied voltage : AC RMS voltage

DERATING CURVE



ORDERING PROCEDURE EXAMPLE



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