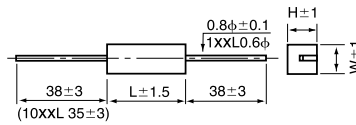


**POWER TYPE CEMENT WIRE-WOUND RESISTORS**

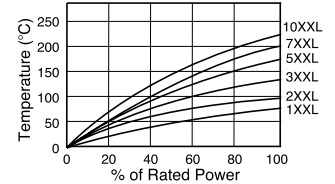
XXL / ML

**XXL Series**

Type	Wattage Rating (W)	Resistance Range (Ω)		Dimensions (mm)			Resistance Tolerance (%)	Temp. Coefficient
		Inductive (XXL)	Non-Inductive (XXLN)	L	H	W		
1XXL	1	0.1~250	1~70	14.5	5.6	6	±0.5 (D) R≥10Ω	±150ppm/°C  Special ±30ppm/°C R≥1Ω
2XXL	2	0.1~800	1~170	18	6.5	6.5	±1 (F) R≥0.1Ω	
3XXL	3	0.1~1.5K	1~400	22	8	8	±3 (H)	
5XXL	5	0.1~2.5K	1~700	22	9.5	9.5	±5 (J)	
10XXL	10	0.1~10K	1~3K	50	10	9	±10 (K)	



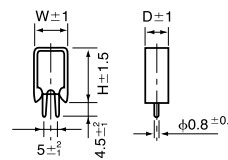
**Surface Temp. Versus Power Load**



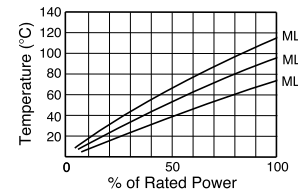
In case of Non-inductive type use □XXLN

**ML Series**

Type	Wattage Rating (W)	Resistance Range (Ω)		Dimensions (mm)			Resistance Tolerance (%)	Temp. Coefficient
		Inductive (ML)	Non-Inductive (MLN)	H	D	W		
ML-2	2	0.05~5K	0.05~1.8K	20.5	7	11	±0.5 (D) R≥10Ω	±150ppm/°C  Special ±30ppm/°C R≥1Ω
ML-3	3	0.05~8K	0.05~2K	25	8	12	±1 (F) R≥0.1Ω	
ML-5	5	0.05~9K	0.05~2.3K	25.5	9	13	±3 (H)	
							±5 (J)	
							±10 (K)	

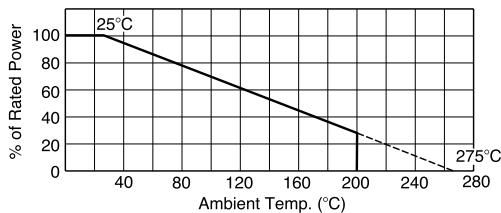


**Surface Temp. Versus Power Load**



In case of Non-inductive type use □MLN

**Ambient Temp. Derating Curve**



**How to order**

10XXL   5.6Ω   J  
 Type   Resistance   Tolerance

● Standard Resistance E-24 Series J (±5%)

**Performance**

Parameters	Test Condition	Specification
Heat Resistance	275°C 2Hr	No Damage
Thermal Shock	Wattage Rating 30min → -30°C 15 min	±(2%+0.05Ω)
Moisture Resistance	Temp. 40°C Moisture 95% 1/10×Wattage Rating (1.5Hr ON, 0.5Hr OFF) Repeat 500Hr	±(3%+0.05Ω) 2.5MΩ MIN
Short Time Over Load	10×Wattage Rating 5sec	±(2%+0.05Ω)
Load Life	Wattage Rating 1.5Hr ON, 0.5Hr OFF 500Hr	±(5%+0.05Ω)



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