

- Features:
- Provides good stability for high power
 - Available in non-inductive
 - Resistant to moisture, solvent and insulation
 - Flame retardant material



Electrical Specifications			
Type / Code	Power Rating (Watts) @ 25°C	Ohmic (Ω) Range and Tolerance 1%, 5%, 10%	
		Standard (MHL)	Non-inductive (NMHL)
MHL60 / NMHL60	60	0.1 - 10K	0.1 - 2.5K
MHL80 / NMHL80	80	0.1 - 10K	0.2 - 3K
MHL100 / NMHL100	100	0.1 - 10K	0.2 - 4K
MHL120 / NMHL120	120	0.15 - 15K	0.2 - 5K
MHL150 / NMHL150	150	0.15 - 15K	0.2 - 6K
MHL200 / NMHL200	200	0.3 - 15K	0.2 - 7K
MHL300 / NMHL300	300	0.5 - 30K	0.5 - 8K
MHL400 / NMHL400	400	0.5 - 30K	0.5 - 10K
MHL500 / NMHL500	500	0.5 - 30K	0.5 - 12K
MHL800 / NMHL800	800	1 - 50K	0.5 - 12K
MHL1000 / NMHL1000	1,000	1 - 100K	1 - 15K

Short Time Overload Rating									
Load Time (s)	5	10	30	60	180	300	600	900	1800
Max. Amps Rated Load (%)	400	350	250	200	140	120	110	105	100

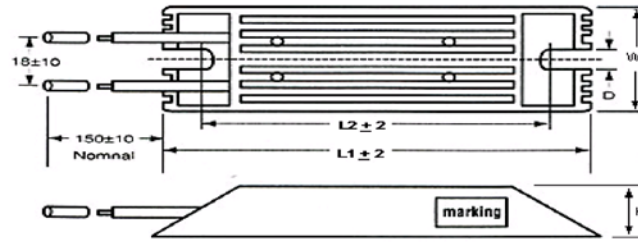
Note: Max. change in resistance ≤ ±5%

NEMA Standard ON-OFF Cycles (8 hours)							
Time Cycles	Seconds ON	5	10	15	15	15	15
	Seconds OFF	75	70	75	45	30	15
Max Amps Rated Load (%)		290	215	185	160	150	125

Note: Max. change in resistance ≤ ±5%

Lead Wire Conductor Cross-Section: Withstand Voltage			
Withstand Voltage	1.25mm ²	2mm ²	3.5mm ²
2500 V	X	-	-
3000 V	X	X	X
3500 V	-	X	X

Mechanical Specifications

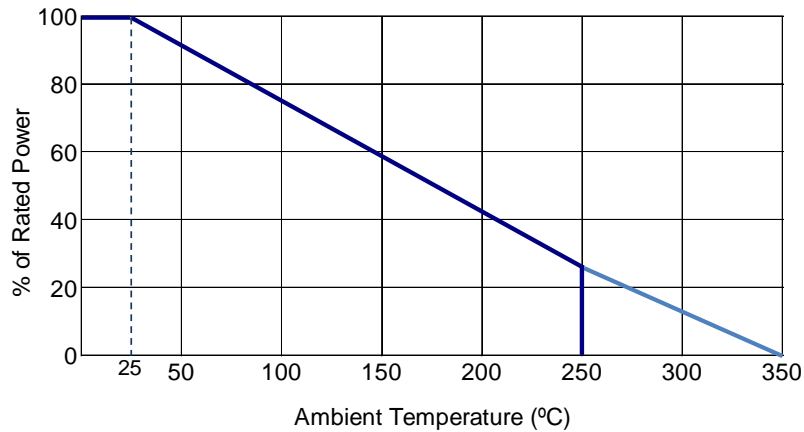


Type / Code	L1	L2	W	H	D	Unit
MHL60 / NMHL60	4.528 115.00	3.937 100.00	1.575 40.00	0.787 20.00	0.209 5.30	inches mm
MHL80 / NMHL80	5.512 140.00	4.921 125.00	1.575 40.00	0.787 20.00	0.209 5.30	inches mm
MHL100 / NMHL100	6.496 165.00	5.906 150.00	1.575 40.00	0.787 20.00	0.209 5.30	inches mm
MHL120 / NMHL120	7.480 190.00	6.890 175.00	1.575 40.00	0.787 20.00	0.209 5.30	inches mm
MHL150 / NMHL150	8.465 215.00	7.874 200.00	1.575 40.00	0.787 20.00	0.209 5.30	inches mm
MHL200 / NMHL200	6.496 165.00	5.906 150.00	2.362 60.00	1.181 30.00	0.209 5.30	inches mm
MHL300 / NMHL300	8.465 215.00	7.874 200.00	2.362 60.00	1.181 30.00	0.209 5.30	inches mm
MHL400 / NMHL400	10.433 265.00	9.843 250.00	2.362 60.00	1.181 30.00	0.209 5.30	inches mm
MHL500 / NMHL500	13.189 335.00	12.598 320.00	2.362 60.00	1.181 30.00	0.209 5.30	inches mm
MHL800 / NMHL800	15.748 400.00	15.157 385.00	2.362 60.00	1.181 30.00	0.209 5.30	inches mm
MHL1000 / NMHL1000	15.748 400.00	15.157 385.00	3.937 100.00	1.969 50.00	0.209 5.30	inches mm

Performance Characteristics

Test	Test Conditions	Specifications
Short Time Overload	5X power rating for 5 sec.	$\Delta R(2\% + 0.05\Omega)$ Max
Moisture Resistance	Temperature: 40C; Humidity: 95% Voltage: DC 100V for 500 hr.	$\Delta R(3\% + 0.05\Omega)$ Max
Load Life	Rated load for 1.5 hr ON; 0.5 hr OFF 1000 hr total	$\Delta R(5\% + 0.05\Omega)$ Max
Load Life in Moisture	Temperature: 40C; Humidity: 95% 1/10 X rated wattage 1.5 hr ON; 0.5 hr OFF; 1000 hr total	$\Delta R(3\% + 0.05\Omega)$ Max
Vibration	10c/s - 50c/s - 10c/s (1min) 2hr each of paralleled and right angle	$\Delta R(1\% + 0.05\Omega)$ Max
Heat Resistance	275°C - 2 hr	$\Delta R(5\% + 0.05\Omega)$ Max
Insulation Resistance		100 M Ω min.
Temperature Coefficient		260 ppm / °C max
Operating Temperature Range		-55°C to 250°C

Power Derating Curve:



RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union’s directive regarding “Restrictions on Hazardous Substances” (RoHS 2). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament.

RoHS Compliance Status						
Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)
MHL	Metal Clad Wirewound Resistor	Special	YES	100% Matte Sn	Always	Always

“Conflict Metals” Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the “conflict region” of the Eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to “REACH”

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, “The Registration, Evaluation, Authorization and Restriction of Chemicals”, otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

How to Order

1	2	3	4	5	6	7	8	9	10	11	12
M	H	L	1	0	0	J	B	2	0	0	R

Product Series		Size	Power	Tolerance		Packaging				Resistance Value
MHL	Metal Clad WW	60	60	Code	Tol	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder.
NMHL	Non-Inductive	80	80	F	1%	B	Bulk	60 and 80	200	0.1 ohm = R100
		100	100	J	5%			All Other Sizes	100	100 ohm = 100R
		120	120	K	10%					10 Kohm = 10K0
		150	150							
		200	200							
		300	300							
		400	400							
		500	500							
		800	800							
		1000	1000							