PHD Power Resistors

Features

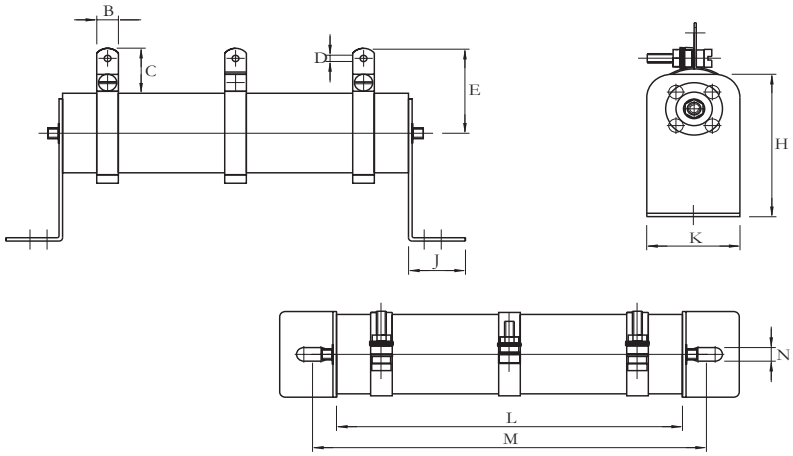
Ⅰ High short term capacity

Ⅱ High element weight for value

Ⅲ Good stability at high temperatures

Ⅳ RoHS Compliant

Dimensions



Type	Dimensions(mm)									
	B max	C max	D max	E max	H max	J max	K max	L max	M max	N max
PHD200	9.5	21.0	5.0	43.0	73.0	19.0	44.0	152.0	173.0	7 x 14
PHD300	9.5	21.0	5.0	43.0	73.0	19.0	44.0	203.0	223.0	7 x 14
PHD400	9.5	21.0	5.0	43.0	73.0	19.0	44.0	254.0	274.0	7 x 14
PHD450	9.5	21.0	5.0	43.0	73.0	19.0	44.0	305.0	325.0	7 x 14
PHD600	9.5	23.0	5.0	50.0	103.0	25.5	54.0	305.0	333.0	7 x 14
PHD750	9.5	23.0	5.0	50.0	103.0	25.5	54.0	356.0	384.0	7 x 14

Ordering Information

Example:

PHD	300	2R2	K
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance	Resistance Tolerance

(1)Type: PHD SERIES

(2)Power Rating: 300=300W、400=400W、450=450W、600=600W、750=750W

(3)Resistance Value:2R2=2.2R、47R0=47Ω、1K0=10KΩ

(4)Tolerance: F=±1%、J=±5%、K=±10%

Reference Standards

JISC 5201-1

Electrical Specifications

Type	Continuous	Short Time (Seconds)			Intermittent(Minutes)						Ohmic Values	
		5	10	20	½	1	2	3	4	5	Min	Max
PHD200	9.5	4000	3000	1800	1100	660	500	400	300	250	0.45	872
PHD300	9.5	6000	4500	2700	1650	990	750	600	450	375	0.67	1294
PHD400	9.5	8000	6000	3600	2200	1320	1000	800	600	500	0.90	1700
PHD450	9.5	9000	6700	4000	2500	1500	1130	900	690	570	1.06	2100
PHD600	9.5	12300	9200	5500	3200	1930	1460	1170	880	740	1.35	2600
PHD750	9.5	14700	11000	6600	4000	2420	1830	1460	1100	920	1.60	3100
	Operation once per hour				Operating time in any 15 minute period						With tapping band	
	The power in watts to give a temperature rise of 300℃ in time stated											

Performance Characteristics

Test Items	Performance	Test Methods(JIS C 5201-1)
Temperature coefficient	±350PPM/℃	Test resistance value at normal temperature and normal temperature added 100℃, calculate ℃ resistance value change rate.
Short-time overload	△R≤±(2%R0+0.05Ω)	According 10 times rated power to account the power or max. overload voltage(get the lower) for 5seconds.
Resistance to soldering heat	△R≤±(1%R0+0.05Ω)	Immerge into the 350±10℃ tin stove for 2~3 seconds
Solderability	Tth soldering area is over 95%	Immerge into the 245±3℃ tin stove for 2~3 seconds
Temperature cycle	△R≤±(2%R0+0.05Ω)	At-55℃ for 30min, then at +25℃ for 10~15min,then at +155℃ for 30min, then at +25℃ for 10~5, min,total 5cycles.
Load life in humidity	△R≤±(5%R0+0.1Ω)	Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5hours on and half-hour off) at the 40±2℃ and 90~95% relative humidity.
Load life in heat	△R≤±(5%R0+0.05Ω)	Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5hours on and half-hour off) at the 70±2℃.
Nonflammability	No visible flame	Respectively load AC voltage by 5,10,16 times rated power for 5 minutes.