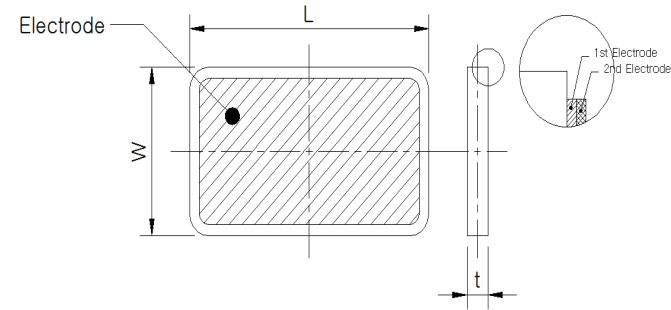


PTC thermistors as heating elements

Metallized rectangular disks (Automotive series)

Applications

- 디젤 연료 히터 (diesel fuel heater)
- 공기 가열 보조 히터 (air pre heater)
- 전기 자동차용 히터



Symbols and terms

R_{25}	Resistance at 25°C
R_b	Resistance switching temperature
T_b	Switching temperature
T_{sf}	Final surface temperature
V_R	Rated voltage
V_{max}	Maximum operating voltage
I_{max}	Maximum current
$I_{in p}$	Peak inrush current
I_{res}	Residual current
V_w	Withstanding voltage

Part no. (Logo : HP)	온도	상온저항	외관 규격		전극		두께	사용전압			전기적 특성			Part no. (Logo : SYP)
	T_b	R_{25}	L	W	1st	2nd	t	V_R	V_{max}	V_{WS}	I_{in}	I_{res}	T_S	
	[°C]	[Ω]	[mm]	[mm]	-	-	[mm]	[V]	[V]	[V]	[Max. A]	[mA]	[°C]	
HP HE 15010 S B 60 12 A 25 A	150	0.85 ±30%	60.0 ±1.0	12.0 ±0.5	Ag/Zn	Ag	2.50 ±0.1	12.0	24.0	30	20.0	700 ±30%	153 ±10	SYP HE 15 010 S B 60 12 - A 25
HP HE 15010 M B 27 21 A 14 A	150	1.00 ±20%	26.5 ±0.5	21.0 ±0.3	Ag/Zn	Ag	1.35 ±0.1	12.0	13.5	30	20.0	690 ±30%	153 ±10	SYP HE 15 010 MB 26R 521 - A 14
HP HE 15010 S B 36 08 A 20 A	150	1.00 ±20%	35.5 ±0.6	7.8 ±0.2	Ag/Zn	Ag	2.00 ±0.1	12.0	13.5	30	15.0	700 ±30%	150 ±10	SYP HE 15 010 S B 36 08 - A 20
HP HE 15010 S B 48 08 A 20 A	150	1.30 ±20%	48.0 ±1.0	8.0 ±0.3	Ag/Zn	Ag	2.00 ±0.1	12.0	24.0	30	10.0	750 ±30%	150 ±10	SYP HE 15 010 S B 48 08 - A 20
HP HE 15020 S B 28 12 A 16 A	150	1.65 ±20%	28.0 ±0.5	12.0 ±0.3	Ag/Zn	Ag	1.65 ±0.1	13.5	28.0	30	12.0	600 ±30%	152 ±10	SYP HE 15 020 S B 28 12 - A 16
HP HE 15020 S B 34 15 A 24 A	150	1.90 ±20%	34.0 ±0.5	15.0 ±0.3	Ag/Zn	Ag	2.40 ±0.1	12.0	24.0	30	10.0	720 ±30%	150 ±10	SYP HE 15 020 S B 34 15 - A 24
HP HE 15030 S B 34 15 A 24 A	150	3.13 ±20%	34.0 ±0.5	15.0 ±0.3	Ag/Zn	Ag	2.40 ±0.1	24.0	36.0	50	15.0	400 ±30%	145 ±10	SYP HE 15 030 S B 34 15 - A 24
HP HE 15050 S B 36 08 A 20 A	150	5.00 ±20%	35.5 ±0.6	7.8 ±0.2	Ag/Zn	Ag	2.00 ±0.1	24.0	30.0	50	9.5	320 ±30%	150 ±10	SYP HE 15 050 S B 36 08 - A 20
HP HE 15201 S B 36 08 A 20 A	150	200.0 ±50%	35.5 ±0.6	7.8 ±0.2	Ag/Zn	Ag	2.00 ±0.1	120	150	250	3.0	70 ±30%	150 ±10	SYP HE 15 201 S B 36 08 - A 20
HP HE 16070 S B 48 08 A 20 A	160	6.50 ±20%	48.0 ±1.0	8.0 ±0.3	Ag/Zn	Ag	2.00 ±0.1	24.0	32.0	50	8.5	420 ±30%	153 ±10	SYP HE 16 070 S B 48 08 - A 20
HP HE 17010 S B 34 15 A 24 A	170	1.70 ±20%	34.0 ±0.5	15.0 ±0.3	Ag/Zn	Ag	2.40 ±0.1	12.0	24.0	30	10.5	950 ±30%	170 ±10	SYP HE 17 010 S B 34 15 - A 24
HP HE 17020 S B 30 06 A 10 A	170	2.35 ±20%	30.0 ±0.5	6.0 ±0.3	Ag/Zn	Ag	1.00 ±0.1	12.0	24.0	100	8.0	670 ±30%	180 ±10	SYP HE 17 020 S B 30 06 - A 10
HP HN17030 S B 36 06 N 10 A	170	3.20 ±20%	36.2 ±0.3	5.7 ±0.2	Ni	Ag	1.00 ±0.1	12.0	24.0	30	8.0	750 ±30%	170 ±10	SYP HE 17 030 S B 36 06 - N 10
HP HE 17372 S B 24 18 Z 20 A	170	2,000 ±50%	24.0 ±0.5	18.0 ±0.3	Ag/Zn	-	2.00 ±0.1	220	480	700	4.0	43 ±30%	180 ±10	SYP HE 17 372 S B 24 18 - O 20
HP HE 17372 S B 24 18 Z 20 A	170	3,750 ±50%	24.0 ±0.5	18.0 ±0.3	Ag/Zn	-	2.00 ±0.1	350	480	700	2.0	37 ±30%	170 ±10	SYP HE 17 372 S B 24 18 - O 20
HP HE 17 372 S B 24 18 Z 20 A	170	4,750 ±40%	24.0 ±0.5	18.0 ±0.3	Ag/Zn	-	2.00 ±0.1	288	480	700	4.0	37 ±30%	170 ±10	SYP HE 17 372 S B 24 18 - O 20
HP HN 18 020 S B 32 12 N 11 A	180	2.10 ±20%	32.0 ±0.3	12.0 ±0.2	Ni	Ag	2.00 ±0.1	12.0	24.0	50	10.0	800 ±30%	182 ±10	SYP HE 18 020 S B 32 12 - N 11
HP HE 18 030 S B 30 06 A 10 A	180	3.00 ±20%	30.0 ±0.5	6.0 ±0.3	Ag/Zn	Ag	1.00 ±0.1	12.0	24.0	50	8.0	850 ±30%	180 ±10	SYP HE 18 030 S B 30 06 - A 10
HP HN 18 030 S B 30 05 N 11 A	180	3.50 ±30%	30.0 ±0.3	5.0 ±0.2	Ni	Ag	1.10 ±0.1	12.0	24.0	50	8.0	800 ±30%	180 ±10	SYP HE 18 030 S B 30 05 - N 11
HP HN 18 040 S B 15 12 N 11 A	180	4.35 ±30%	15.0 ±0.3	12.0 ±0.2	Ni	Ag	1.10 ±0.1	12.0	24.0	50	8.0	750 ±30%	175 ±10	SYP HE 18 040 S B 15 12 - N 11
HP HN 18 070 S B 32 12 N 11 A	180	7.00 ±20%	32.0 ±0.3	12.0 ±0.2	Ni	Ag	1.10 ±0.1	24.0	30.0	50	8.0	440 ±30%	180 ±10	SYP HE 18 070 S B 32 12 - N 11
HP HN 18 120 S B 32 12 N 11 A	180	12.00 ±20%	32.0 ±0.3	12.0 ±0.2	Ni	Ag	1.10 ±0.1	24.0	30.0	50	8.0	410 ±30%	180 ±10	SYP HE 18 120 S B 32 12 - N 11
HP HN 18 180 S B 32 12 N 11 A	180	20.00 ±20%	32.0 ±0.3	12.0 ±0.2	Ni	Ag	1.10 ±0.1	24.0	28.0	50	5.0	400 ±30%	180 ±10	SYP HE 18 180 S B 32 12 - N 11