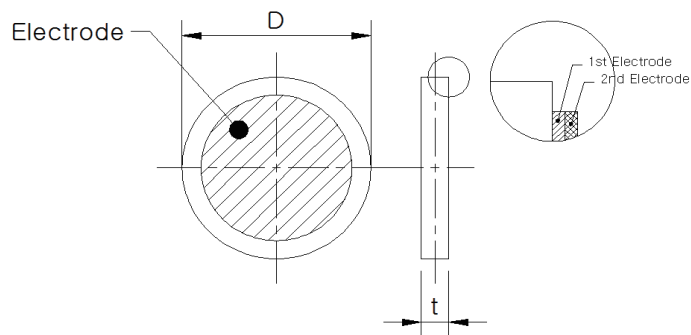


■ PTC thermistors as heating elements

➤ Metallized round disks (Automotive series)

◆ Applications

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



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}		1st	2nd	t	V_R	V_{max}	V_{WS}	I_{in}	I_{res}	T_s	
	[°C]	[Ω]	[mm]	-	-	[mm]	[V]	[V]	[V]	[Max. A]	[mA]	[°C]	
HP HJ 14 010 S D 12 00 A 15 A	145	1.55 ±20%	12.0 ±0.3	Ag/Zn	Ag	1.53 ±0.1	13.5	28.0	30	10.0	600 ±30%	145 ±10	SYP HE 14 010 S D 12 - A 15
HP HE 14 020 S D 16 00 A 15 A	140	2.00 ±20%	16.0 ±0.5	Ag/Zn	Ag	1.55 ±0.1	12.0	13.5	30	8.5	550 ±30%	145 ±10	SYP HE 14 020 S D 16 - A 15
HP HJ 14 030 S D 12 00 A 15 A	140	3.00 ±20%	12.0 ±0.3	Ag/Zn	Ag	1.50 ±0.1	12.0	13.5	30	6.0	600 ±30%	140 ±10	SYP HE 14 030 S D 12 - A 15
HP HE 14 070 S D 16 00 A 15 A	140	7.00 ±20%	16.0 ±0.5	Ag/Zn	Ag	1.55 ±0.1	24.0	28.6	50	6.0	280 ±30%	140 ±10	SYP HE 14 070 S D 16 - A 15
HP HJ 15 020 S D 12 R2 A 14 A	150	2.10 ±20%	12.2 ±0.3	Ag/Zn	Ag	1.40 ±0.1	13.5	28.0	30	7.8	560 ±30%	150 ±10	SYP HE 15 020 S D 12R2 - A 14
HP HJ 16 020 S D 12 00 A 16 A	165	2.00 ±20%	12.0 ±0.3	Ag/Zn	Ag	1.58 ±0.1	13.5	28.0	30	10.0	700 ±30%	162 ±10	SYP HE 16 020 S D 12 - A 16
HP HE 22 090 S D 12 R4 A 12 A	220	9.0 ±30%	12.4 ±0.3	Ag/Zn	Ag	1.15 ±0.1	12.0	13.5	30	4.0	100 ±30%	205 ±10	SYP HE 22 090 S D 12 - A 12