

12 V

Applications

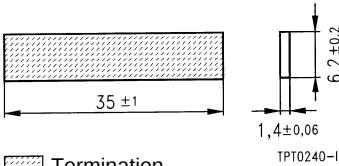
- General-purpose heating element,
e. g. for automotive applications

Features

- Thermistor rectangle with aluminum metallization
- No migration effects
- For clamp-contacting
- Max. curvature 0,05 mm

Options

Other dimensions and electrical parameters
available upon request



Termination

Dimensions (mm)

Max. operating voltage	$V_{\max}$	20	V
Rated voltage	V_N	12	V
Breakdown voltage	V_D	> 40	V
Operating temperature range ($V = 0$)	T_{op}	– 40/+ 200	°C
($V = V_N$)	T_{op}	– 25/+ 60	°C
Resistance tolerance	ΔR	± 50 %	

Type	T_{Ref} °C	R_{min} ($V = V_N$) Ω	$T_{surf}^{2)}$ ($V = V_N$) °C	R_N ($V_{Meas} \leq 1,5 V$) Ω	Ordering code
R 42-A40	40	1,00 ¹⁾	75	3,2	B59042-R40-A10
R 42-A60	60	1,25	90	3,2	B59042-R60-A10
R 42-A80	80	1,00	110	3,2	B59042-R80-A10
R 42-A120	120	1,00	145	3,2	B59042-R120-A10
R 42-A160	160	0,75	180	3,2	B59042-R160-A10
R 42-A180	180	0,75	200	3,2	B59042-R180-A10
R 42-A220	220	1,00	230	6,4	B59042-R220-A10
R 42-A280	280	1,00	280	12,8	B59042-R280-A10

1) Valid for $T_A < 25$ °C

2) Measured peak-to-peak

Characteristics (typical)

PTC resistance R_{PTC} versus PTC temperature T_{PTC}
(measured at low signal voltage)

