

Degaussing

B59***

Double Mono PTC Thermistors

T ***

Applications

- Degaussing of picture tubes

Features

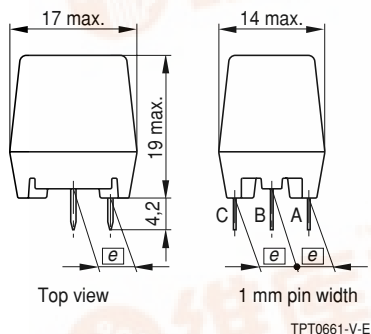
- Two PTC thermistors in a plastic case (3-pin)
- Marked with manufacturer's logo, type designation and date code
- Flame-retardant case material (UL 94 V-0)
- Solderability to IEC 60068-2-20 (test ta, methode 1)
- Stable performance throughout a large number of switching cycles owing to clamp contacting
- UL approval to UL 1434 (file number E69802) (except T 205)
- VDE approval for T 890 (license number 128911)
- CECC 60738-1-3-001 approval for T 890

Delivery mode

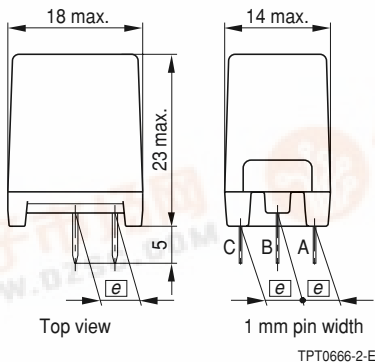
- Packed in deep-drawn trays

Dimensional drawings

Thermoplast housing for type:
T 205



Duroplast housing for type:
T 830, T 845, T 870, T 890





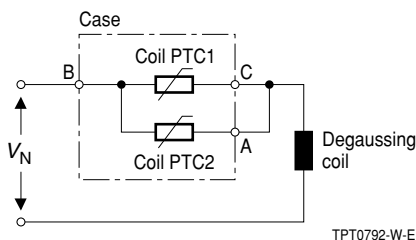
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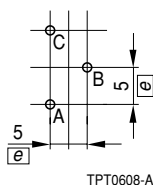
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Circuit diagram



Hole arrangement



General technical data

Operating temperature range ($V = 0$)	T_{op}	$-25/+125$	$^{\circ}\text{C}$
Operating temperature range ($V = V_N$)	T_{op}	$0/+60$	$^{\circ}\text{C}$

Electrical specifications and ordering codes

Type	$I_{in,coil}$ (0 s)	$I_{r,coil}$ (180 s) ($V = V_N$, $25^{\circ}\text{C} \leq T_{op} \leq 60^{\circ}\text{C}$)	R_N	R_{coil}	Housing ¹⁾	Decay ²⁾	Ordering code
	A_{pp}	mA_{pp}	Ω	Ω			
$V_{max} = 140 \text{ VAC}$, $V_N = 110 \text{ VAC}$							
T 830	≥ 40	≤ 60	1,5 (2×3)	$\geq 5,5$	D	-	B59830T0060B110
$V_{max} = 270 \text{ VAC}$, $V_N = 230 \text{ VAC}$							
T 845	≥ 48	≤ 50	2,25 ($2 \times 4,5$)	≥ 10	D	-	B59845T0060B110
T 870	≥ 44	≤ 50	3,5 (2×7)	≥ 10	D	-	B59870T0060B110
T 205	≥ 44	≤ 40	4,5 (2×9)	$\geq 9,25$	T	SD	B59205T0080B110
T 890	≥ 40	≤ 50	4,5 (2×9)	≥ 10	D	LD	B59890T0060B110

Note for all types:

A single degaussing coil may be replaced by two coils in parallel.
E.g. a single coil of 10Ω can be replaced by two 20Ω coils in parallel, one connected to terminal A the other to terminal C.

1) T: Thermoplast housing; D: Duroplast housing



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Reliability data

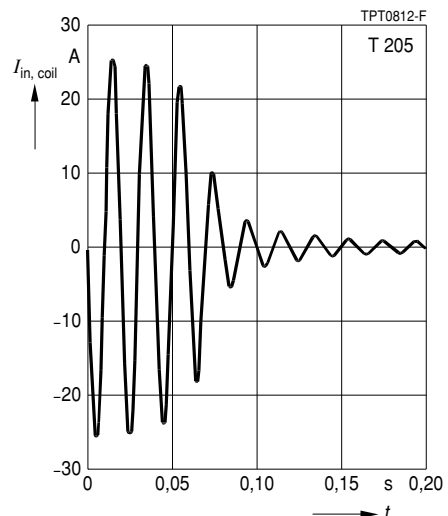
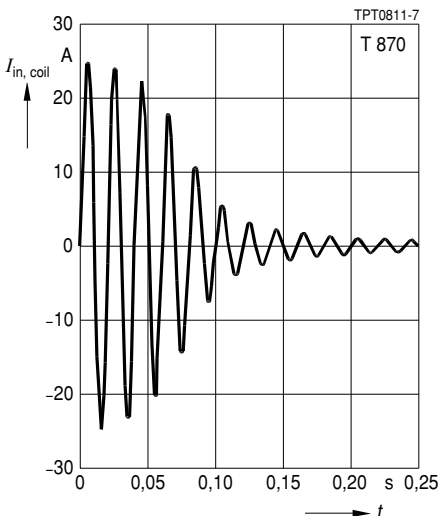
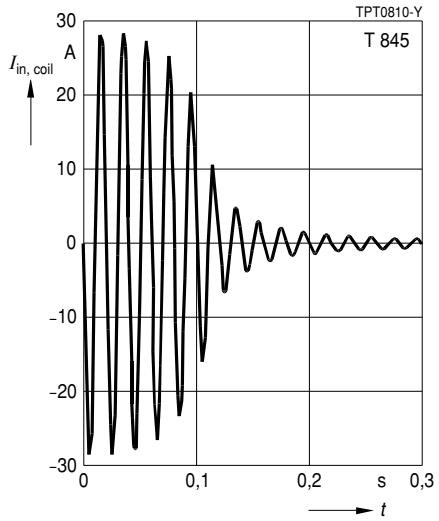
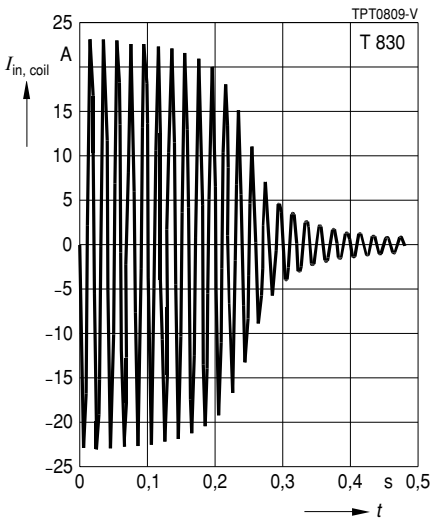
Test	Standard	Test conditions	$ \Delta R_{25}/R_{25} $
Switching test at room temperature	IEC 60738-1	$V_{\max}$; R_S Room temperature Number of cycles: 10000	< 20 %
Life test at $V_{\max}/T_{op}$	IEC 60738-1	Storage at $V_{\max}/T_{op}$ for t : 1000 h	< 20 %
Damp heat	IEC 60068-2-3	Storage at 40 °C Relative humidity: 93% Duration: 56 days	< 20 %
Rapid change of temperature in air	IEC 60068-2-14, Test N_a	$T = T_{LCT}$, $T = T_{UCT}$ Number of cycles: 5 t : 30 min	< 20 %
Vibration	IEC 60068-2-6, Test F_C	$f = 10-55-10$ Hz $h = 0,75$ mm (respectively 10 g) t : 3 · 2 h	< 20 %
Bump	IEC 60068-2-27	Pulse shape: half-sine a : = 40 g Pulse duration: 6 ms; 6 · 4000 pulses	< 20 %
Climatic sequence	IEC 60068-2-30	Dry heat: $T = T_{UCT}$, t : 16 h Damp heat first cycle Cold: $T = T_{LCT}$, t : 2 h Damp heat 5 cycles	< 20 %

**Characteristics**

Typical curve of demagnetization current $I_{in,coil}$ measured at V_N

Coil resistance: 5,5 Ω (T 830), 10 Ω (T 845, T 870), 9,25 Ω (T 205)

Ambient temperature: 25 °C

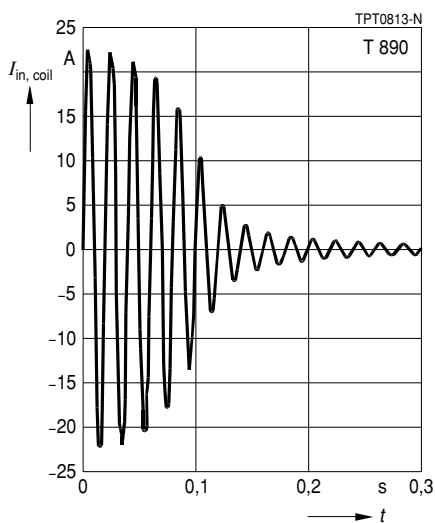


Characteristics

Typical curve of demagnetization current $I_{in,coil}$ measured at V_N

Coil resistance: $10\ \Omega$ (T 890)

Ambient temperature: $25\ ^\circ\text{C}$



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