EPCOS

Degaussing **B59***

Dual PTC Thermistors **T ***

Applications

- Degaussing of picture tubes

Features

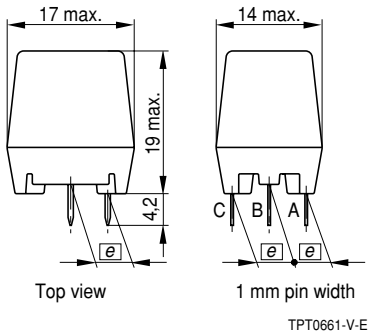
- Two PTC thermistors in a plastic case (3-pin)
- Low residual current through coil due to double PTC configuration
- Marked with manufacurer's logo, type designation and date code
- Flame-retardant case material (UL 94 V-0)
- Solderability to IEC 60068-2-20 (test ta, methode 1)
- Stable performance throughout a large number of switching cycles owing to clamp contacting
- VDE approval for T 209, T 709, T 104, T 704, T 108, T 608 and T 250 (license number 128911)
- UL approval for T 563, T 555, T 705, T 709 to UL 1434 (file number E69802)
- CECC 60738-1-3-001 approval

Delivery mode

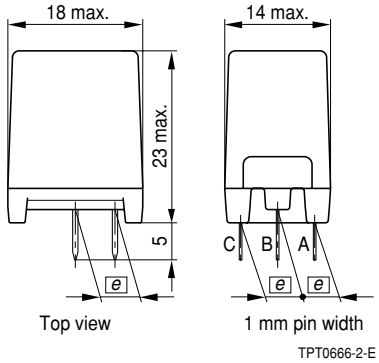
- Packed in deep-drawn trays

Dimensional drawings

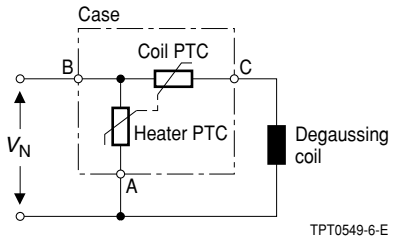
Thermoplast housing for Type:
T 104, T 108, T 209, T 250



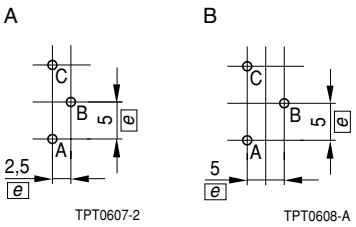
Duroplast housing for Type:
T 555, T 563, T 608, T 704, T 705, T 709



Circuit diagram



Hole arrangement



General technical data

Operating temperature range (V = 0)	T_{op}	– 25/+ 125	°C
Operating temperature range (V = V_N)	T_{op}	0/+ 60	°C

Electrical specifications and ordering codes

Type	$I_{in,coil}$ (0 s) A_{pp}	$I_{r,coil}$ (180 s) (V=V_N, 25 °C ≤ T_{op} ≤ 60 °C) mA_{pp}	R_N Ω	R_{coil} Ω	Housing[1]	Decay[2]	Ordering code
V_{max} = 140 VAC, V_N = 110 VAC							
T 563	≥ 30	≤ 4	3	≥ 5,5	D	-	B59563T0060+110
T 555	≥ 29	≤ 4	5	≥ 4,5	D	-	B59555T0060+110
V_{max} = 270 VAC, V_N = 230 VAC							
T 705	≥ 24	≤ 5	4,5	≥ 20	D	-	B59705T0060+110
T 209	≥ 18	≤ 8	9	≥ 20	T	SD	B59209T0080+010
T 709	≥ 24	≤ 4	9	≥ 14	D	LD	B59709T0060+110
T 104	≥ 25	≤ 7	14	≥ 10	T	SD	B59104T0080+010
T 704	≥ 25	≤ 4	14	≥ 10	D	LD	B59704T0080+110
T 108	≥ 20	≤ 4	18	≥ 10	T	SD	B59108T0080+010
T 608	≥ 20	≤ 3	18	≥ 10	D	LD	B59608T0080+110
T 250	≥ 10	≤ 4	28	≥ 25	T	-	B59250T0080+010

Replace + by A for hole arrangement A
+ by B for hole arrangement B

1) T: Thermoplast housing; D: Duroplast housing
2) SD: Standard decay behavior; LD: Long decay behavior

Reliability data

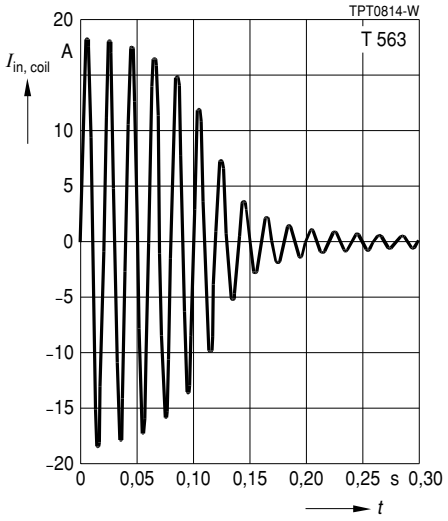
Test	Standard	Test conditions	$\lvert\Delta R_{25}/R_{25}\rvert$
Switching test at room temperature	IEC 60738-1	V_{max}; R_S Room temperature Number of cycles: 10000	< 20%
Life test at V_{max}/T_{op}	IEC 60738-1	Storage at V_{max}/T_{op} for t: 1000 h	< 20%
Damp heat	IEC 60068-2-3	Storage at 40 °C Relative 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%

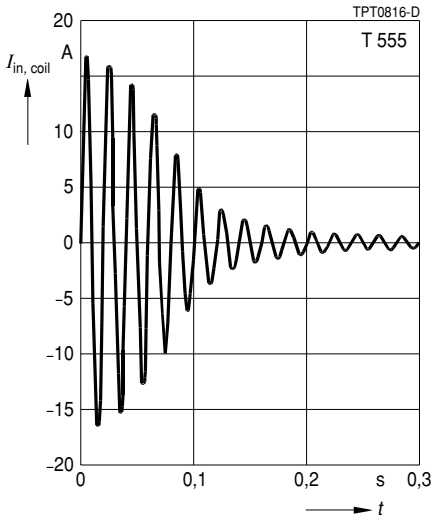
Characteristics

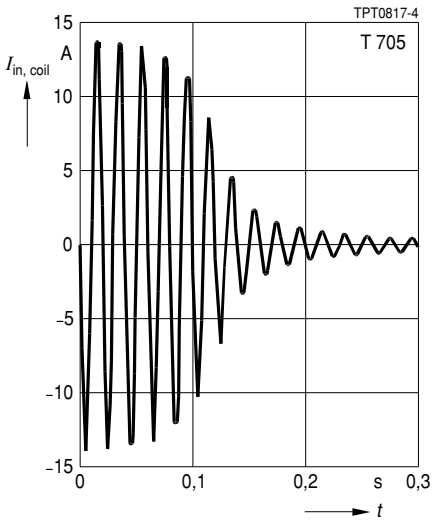
Typical curve of demagnetization current $I_{in,coil}$ measured at V_N

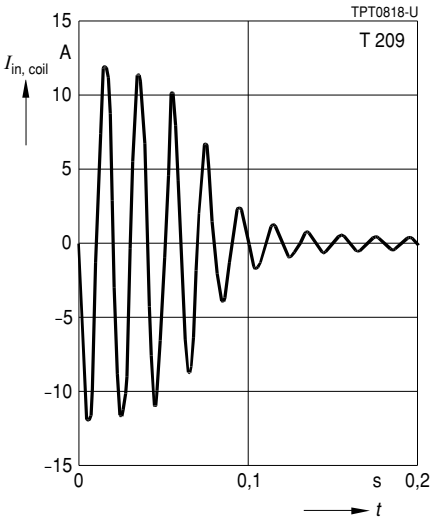
Coil resistance: 5,5 Ω (T 563), 4,5 Ω (T 555), 20 Ω (T 705, T 209)

Ambient temperature: 25 °C







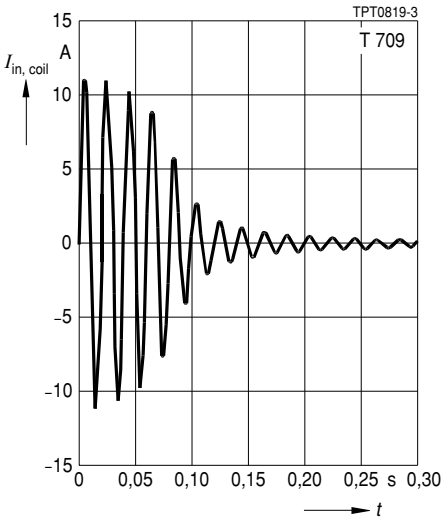


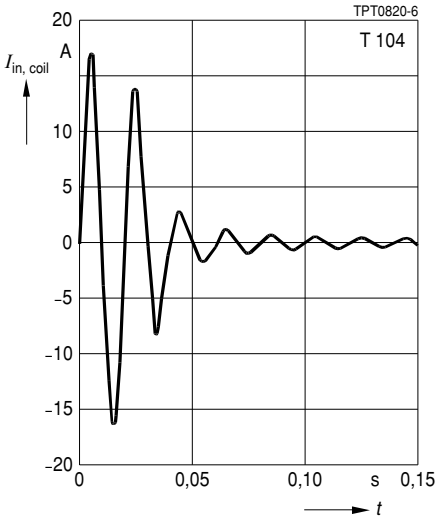
Characteristics

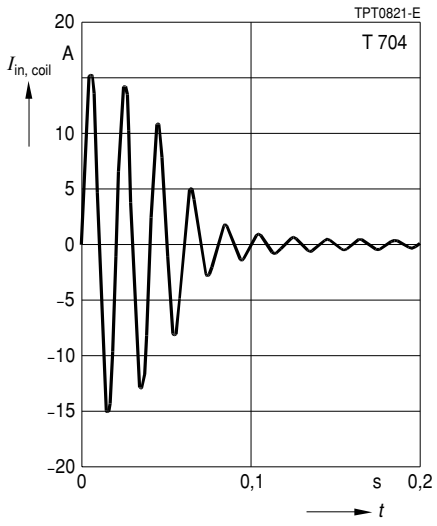
Typical curve of demagnetization current $I_{in,coil}$ measured at V_N

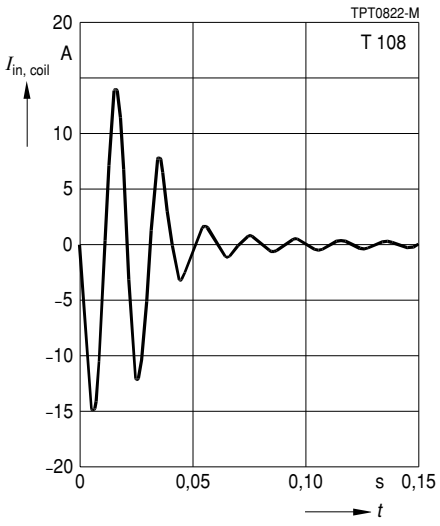
Coil resistance: 14 Ω (T 709), 10 Ω (T 104, T 704, T 108)

Ambient temperature: 25 °C







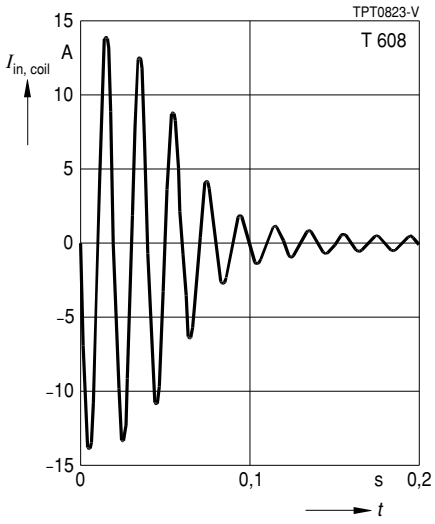


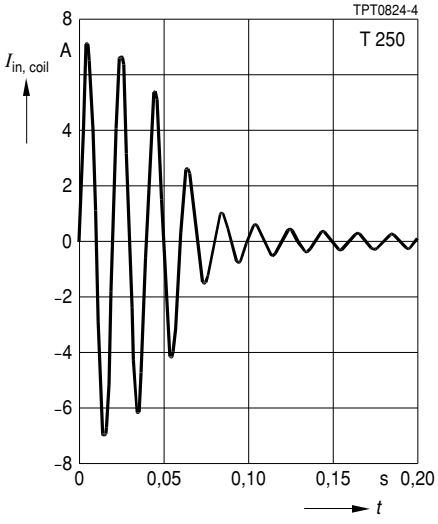
Characteristics

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

Coil resistance: 10 Ω (T 608), 25 Ω (T 250)

Ambient temperature: 25 °C





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