

Degaussing

B59***

Mono PTC Thermistors

J ***

Applications

- Degaussing of picture tubes

Features

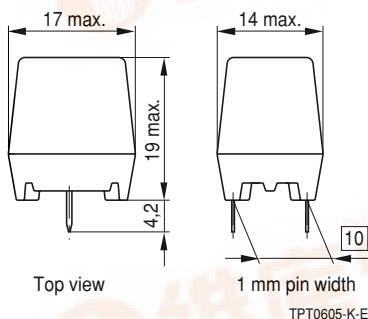
- PTC thermistor in a plastic case (2-pin)
- Marked with manufacturer's logo, type designation and date code
- Flame-retardant case material (UL 94 V-0)
- Solderability to IEC 60068-2-20 (test ta, methode 1)
- Stable performance throughout a large number of switching cycles owing to clamp contacting
- UL approval for J 563, J 555, J 705, J 707 and J 709 to UL 1434 (file number E69802)
- VDE approval for J 209, J 709, J 120 and J 140 (license number 128911)
- CECC 60738-1-3-001 approval

Delivery mode

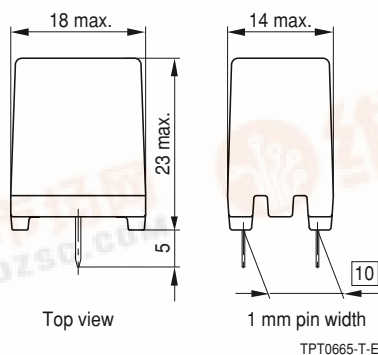
- Packed in deep-drawn trays

Dimensional drawings

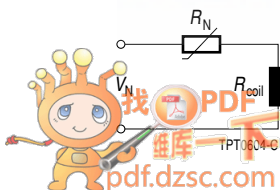
Thermoplast housing for type:
J 209, J 104, J 120



Duroplast housing for type:
J 555, J 563, J 704, J 705, J 707, J 709



Circuit diagram





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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)	$I_{r,coil}$ (180 s) ($V = V_N$, $25\text{ °C} \leq T_{op} \leq 60\text{ °C}$)	R_N	R_{coil}	Housing ¹⁾	De-cay ²⁾	Ordering code
	A_{pp}	mA_{pp}	Ω	Ω			
$V_{max} = 140\text{ VAC}$, $V_N = 110\text{ VAC}$							
J 563	≥ 30	≤ 40	3	$\geq 5,5$	D	-	B59563J0060A110
J 555	≥ 29	≤ 40	5	$\geq 4,5$	D	-	B59555J0060A110
$V_{max} = 270\text{ VAC}$, $V_N = 230\text{ VAC}$							
J 705	≥ 24	≤ 25	4,5	≥ 20	D	-	B59705J0060A110
J 707	≥ 22	≤ 25	7	≥ 20	D	-	B59707J0060A110
J 209	≥ 18	≤ 40	9	≥ 20	T	SD	B59209J0080A010
J 709	≥ 18	≤ 25	9	≥ 20	D	LD	B59709J0060A110
J 120	≥ 22	≤ 30	12	≥ 10	T	-	B59120J0080A010
J 104	≥ 25	≤ 30	14	≥ 10	T	SD	B59104J0080A010
J 704	≥ 25	≤ 25	14	≥ 10	D	LD	B59704J0080A110

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 $V_{\max}/T_{\text{op}}$	IEC 60738-1	Storage at $V_{\max}/T_{\text{op}}$ 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	$T = T_{\text{LCT}}, T = T_{\text{UCT}}$ Number of cycles: 5 t : 30 min	< 20%
Vibration	IEC 60068-2-6, Test F_C	$f = 10\text{--}55\text{--}10$ 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: $T = T_{\text{UCT}}, t$: 16 h Damp heat first cycle Cold: $T = T_{\text{LCT}}, t$: 2 h Damp heat 5 cycles	< 20%

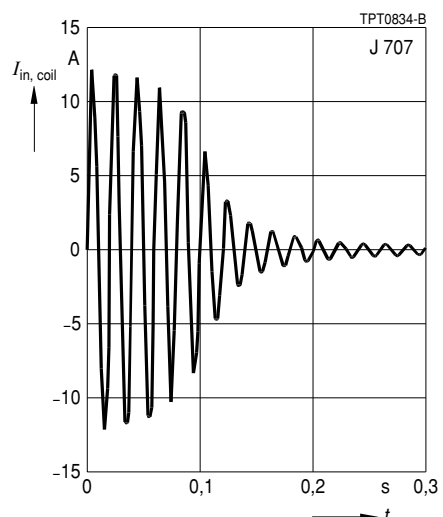
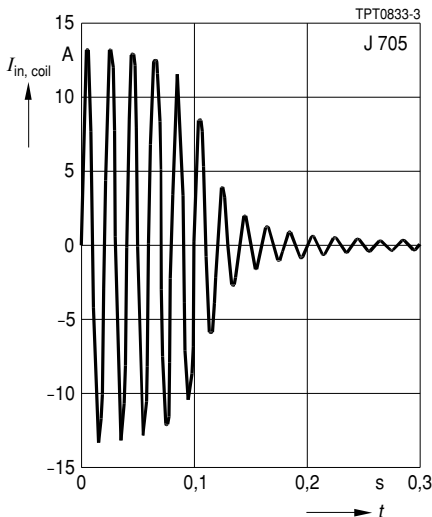
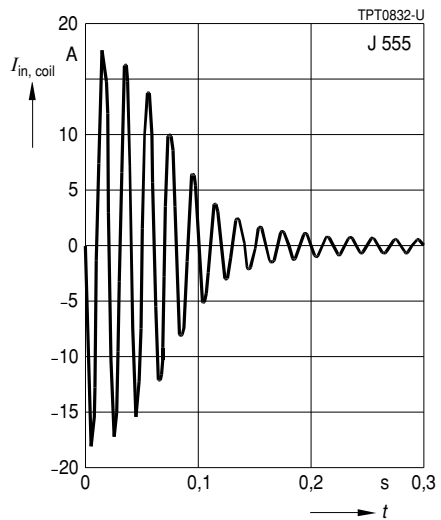
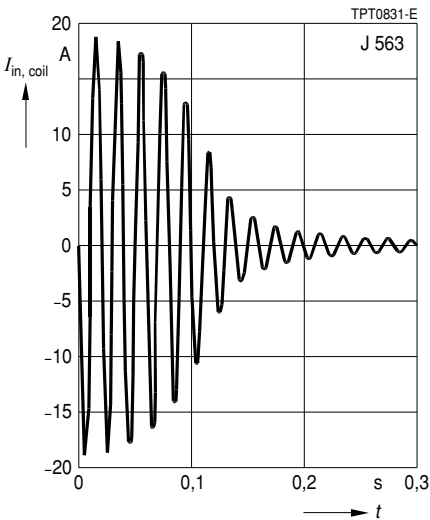


Characteristics

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

Coil resistance: 5,5 Ω (J 563), 4,5 Ω (J 555), 20 Ω (J 705, J 707)

Ambient temperature: 25 °C

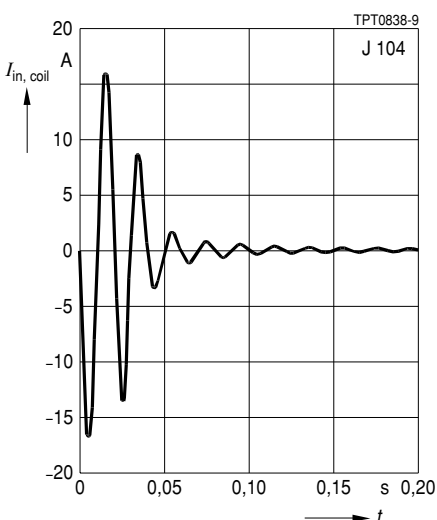
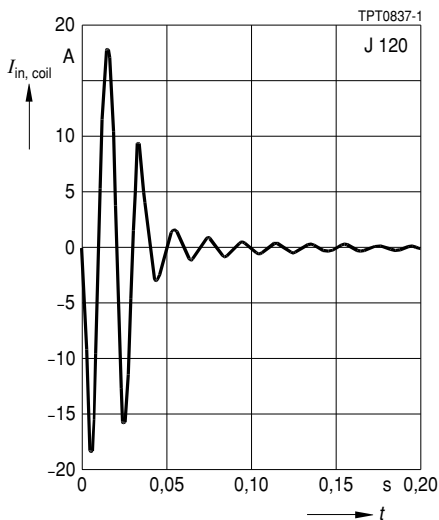
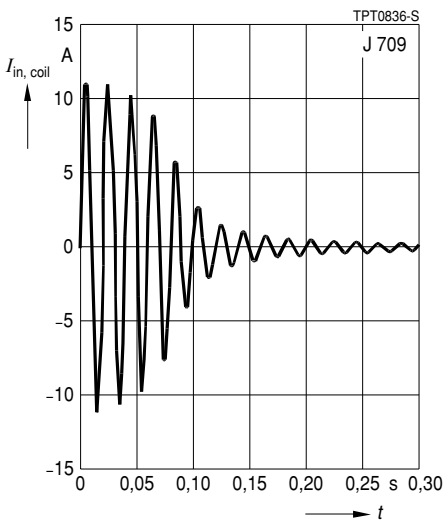
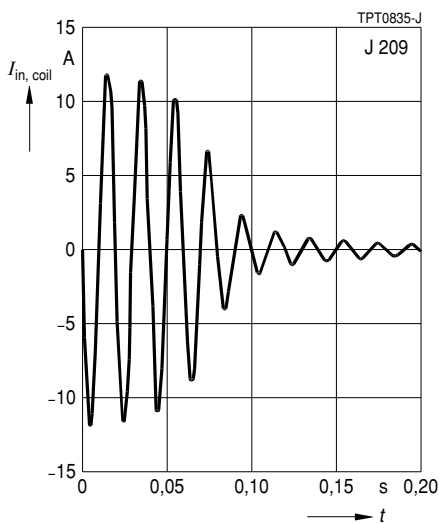


Characteristics

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

Coil resistance: 20 Ω (J 209, J 709), 10 Ω (J 120, J 104)

Ambient temperature: 25 °C

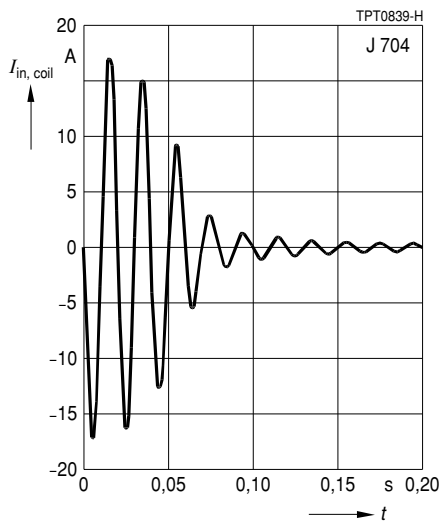


Characteristics

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

Coil resistance: $10\ \Omega$ (J 704)

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



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Corporate Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY

☎ ++49 89 636 09, FAX (0 89) 636-2 26 89

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