

### Applications

- Degaussing of picture tubes

### Features

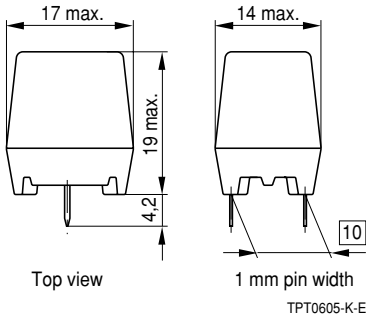
- PTC thermistor in a plastic case (2-pin)
- Marked with manufacturer's logo, type designation and date code
- Flame-retardant case material (UL 94 V-0)
- Solderability to IEC 60068-2-20 (test ta, methode 1)
- Stable performance throughout a large number of switching cycles owing to clamp contacting
- 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

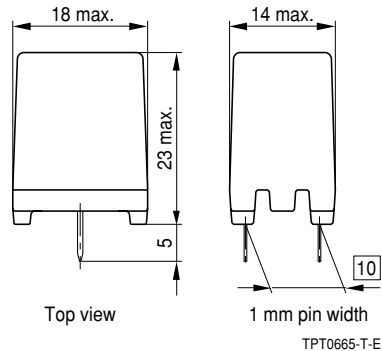
- Packed in deep-drawn trays

### Dimensional drawings

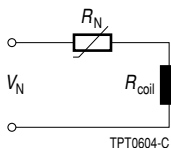
Thermoplast housing for type:  
J 209, J 104, J 120



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



### Circuit diagram



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

1) T: Thermoplast housing; D: Duroplast housing

2) SD: Standard decay behavior; LD: Long decay behavior

**Reliability data**

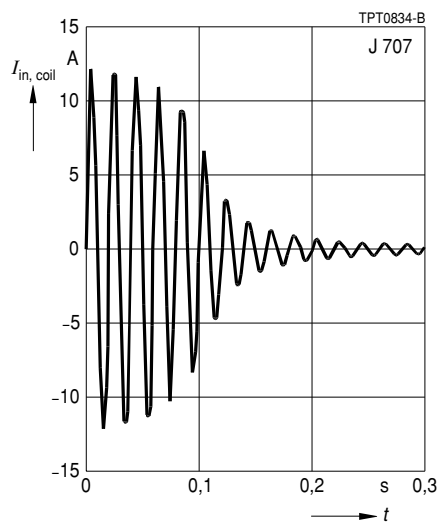
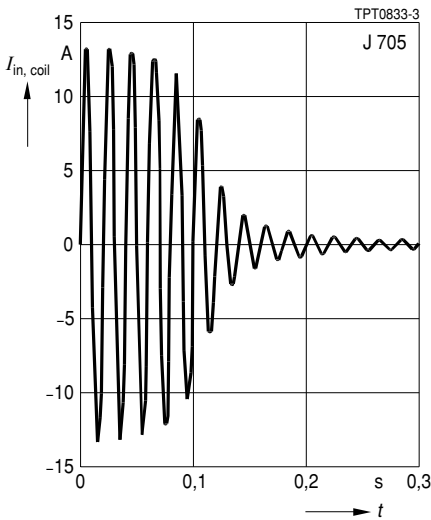
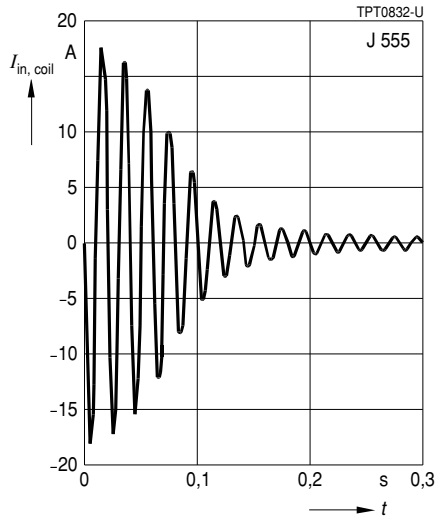
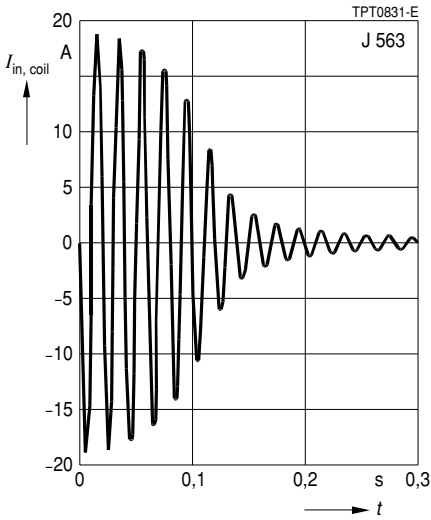
Test	Standard	Test conditions	$ \Delta R_{25}/R_{25} $
Switching test at room temperature	IEC 60738-1	$V_{\max}$ ; $R_S$ Room temperature Number of cycles: 10000	< 20%
Life test at $V_{\max}/T_{\text{op}}$	IEC 60738-1	Storage at $V_{\max}/T_{\text{op}}$ for $t$ : 1000 h	< 20%
Damp heat	IEC 60068-2-3	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 $F_C$	$f = 10-55-10$ 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: $T = T_{\text{UCT}}, t$ : 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  $\Omega$  (J 563), 4,5  $\Omega$  (J 555), 20  $\Omega$  (J 705, J 707)

Ambient temperature: 25 °C

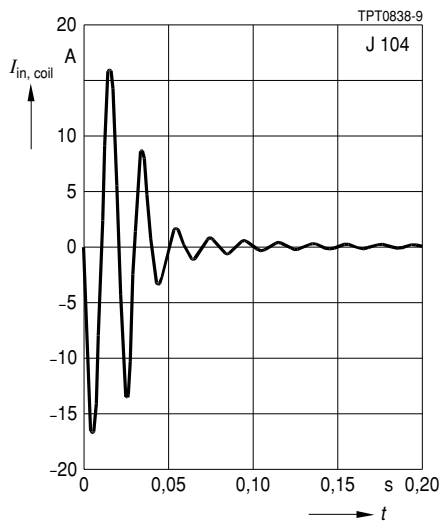
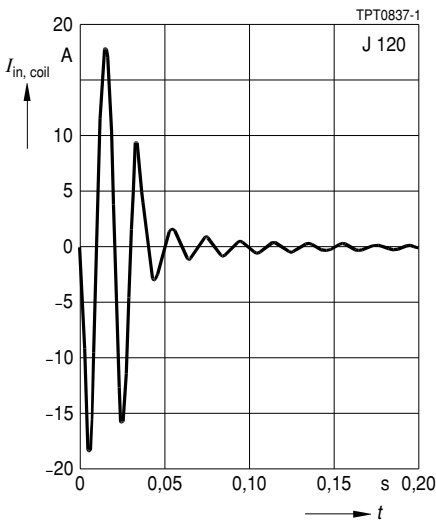
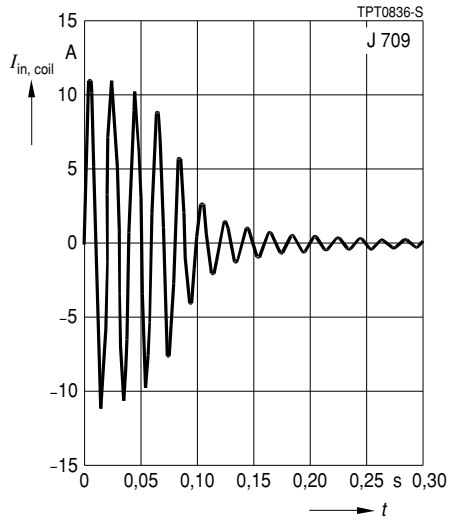
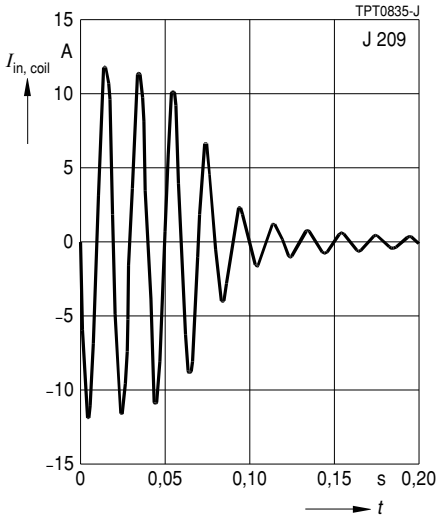


**Characteristics**

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

Coil resistance: 20  $\Omega$  (J 209, J 709), 10  $\Omega$  (J 120, J 104)

Ambient temperature: 25 °C

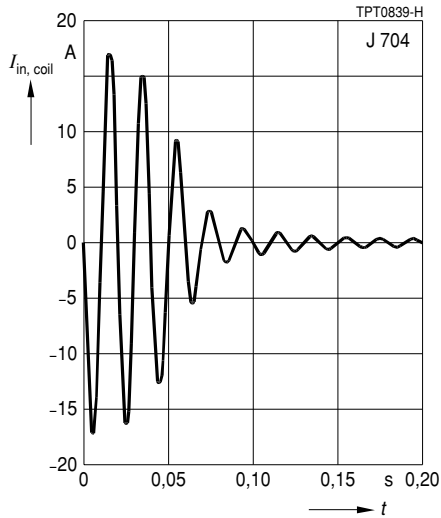


### Characteristics

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

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

Ambient temperature: 25 °C



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