Applications

- Degaussing of picture tubes

Features

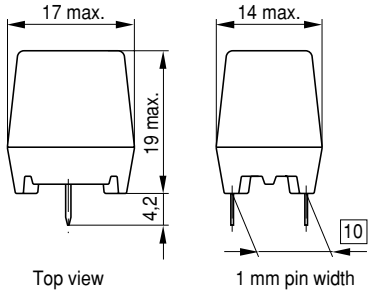
- PTC thermistor in a plastic case (2-pin)
- Marked with manufacurer's logo, type designation and date code
- Flame-retardant case material (UL 94 V-0)
- Solderability to IEC 60068-2-20 (test ta, methode 1)
- Stable performance throughout a large number of switching cycles owing to clamp contacting
-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

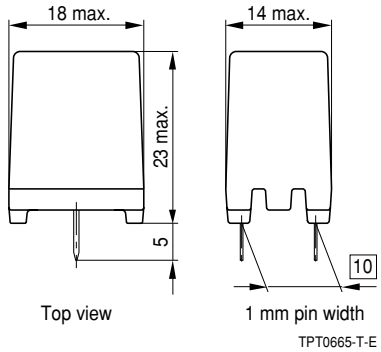
- Packed in deep-drawn trays

Dimensional drawings

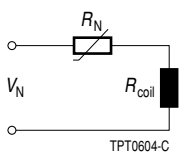
Thermoplast housing for type:
J 209, J 104, J 120



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)	$I_{r,coil}$ (180 s) (V=V_N, 25 °C ≤ T_{op} ≤ 60 °C)	R_N	R_{coil}	Housing[1]	Decay[2]	Ordering code
	A_{pp}	mA_{pp}	Ω	Ω			
V_{max} = 140 VAC, V_N = 110 VAC							
J 563	≥ 30	≤ 40	3	≥ 5,5	D	-	B59563J0060A110
J 555	≥ 29	≤ 40	5	≥ 4,5	D	-	B59555J0060A110
V_{max} = 270 VAC, V_N = 230 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
2) SD: Standard decay behavior; LD: Long decay behavior

Reliability data

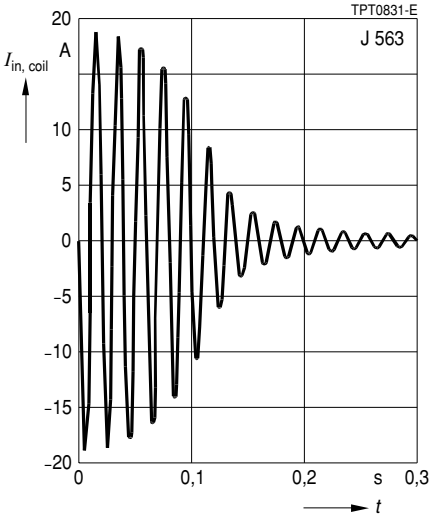
Test	Standard	Test conditions	$\lvert\Delta R_{25}/R_{25}\rvert$
Switching test at room temperature	IEC 60738-1	V_{max}; R_S Room temperature Number of cycles: 10000	< 20%
Life test at V_{max}/T_{op}	IEC 60738-1	Storage at V_{max}/T_{op} for t: 1000 h	< 20%
Damp heat	IEC 60068-2-3	Storage at 40 °C Relative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

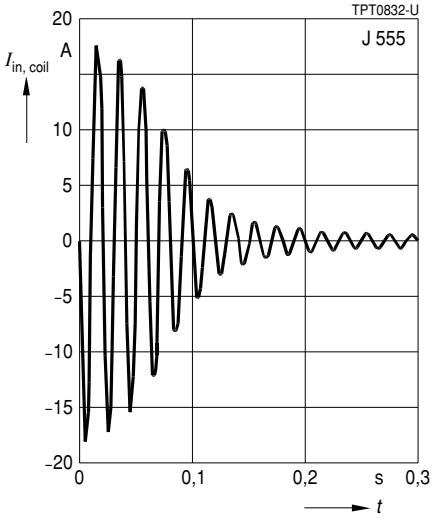
Characteristics

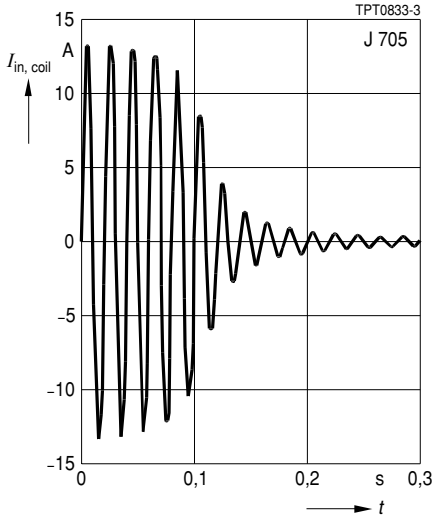
Typical curve of demagnetization current $I_{in,coil}$ measured at V_N

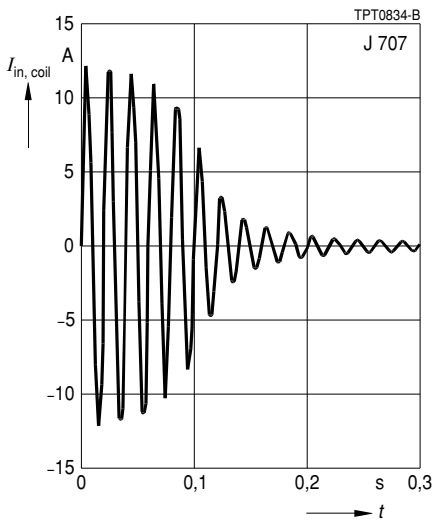
Coil resistance: 5,5 Ω (J 563), 4,5 Ω (J 555), 20 Ω (J 705, J 707)

Ambient temperature: 25 °C







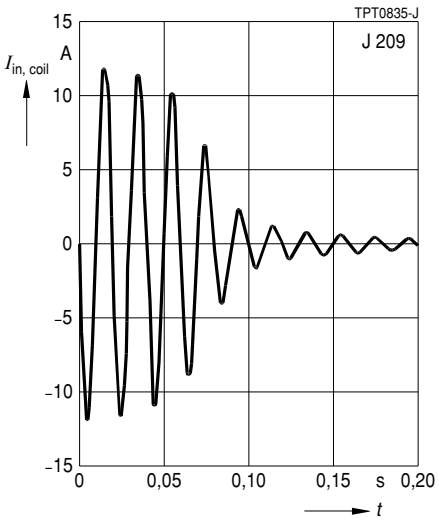


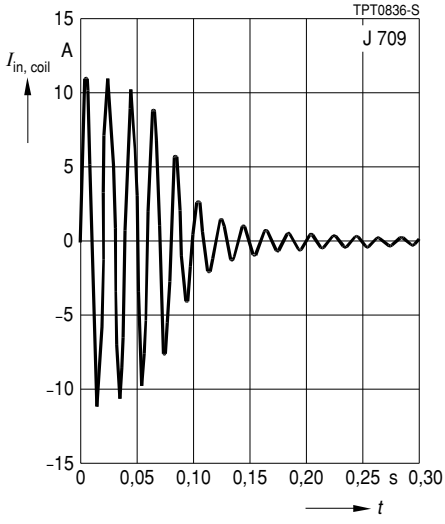
Characteristics

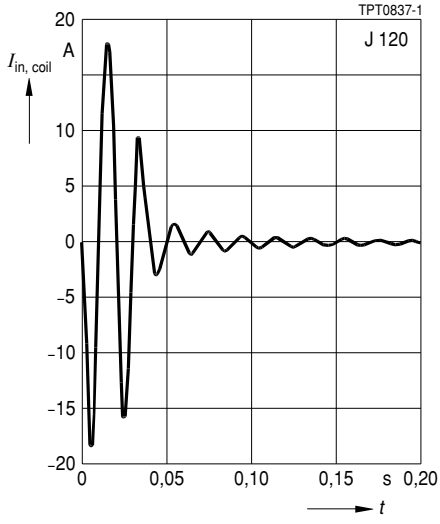
Typical curve of demagnetization current $I_{in,coil}$ measured at V_N

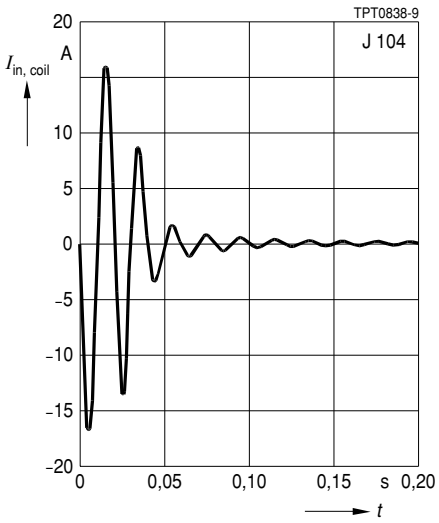
Coil resistance: 20 Ω (J 209, J 709), 10 Ω (J 120, J 104)

Ambient temperature: 25 °C







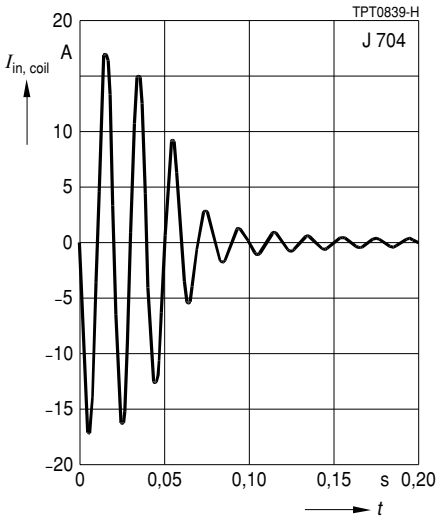


Characteristics

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

Coil resistance: 10 Ω (J 704)

Ambient temperature: 25 °C



Herausgegeben von EPCOS AG
Unternehmenskommunikation, Postfach 80 17 09, 81617 München, DEUTSCHLAND
☎ ++49 89 636 09, FAX (0 89) 636-2 26 89

Bestellungen unterliegen den vom ZVEI empfohlenen Allgemeinen Lieferbedingungen für Erzeugnisse und Leistungen der Elektroindustrie, soweit nichts anderes vereinbart wird.

Diese Broschüre ersetzt die vorige Ausgabe.

Fragen über Technik, Preise und Liefermöglichkeiten richten Sie bitte an den Ihnen nächstgelegenen Vertrieb der EPCOS AG oder an unsere Vertriebsgesellschaften im Ausland. Bauelemente können aufgrund technischer Erfordernisse Gefahrstoffe enthalten. Auskünfte darüber bitten wir unter Angabe des betreffenden Typs ebenfalls über die zuständige Vertriebsgesellschaft einzuholen.

Published by EPCOS AG
Corporate Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY
☎ ++49 89 636 09, FAX (0 89) 636-2 26 89

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.