NEGATIVE TEMPERATURE COEFFICIENT THERMISTORS

VA1104

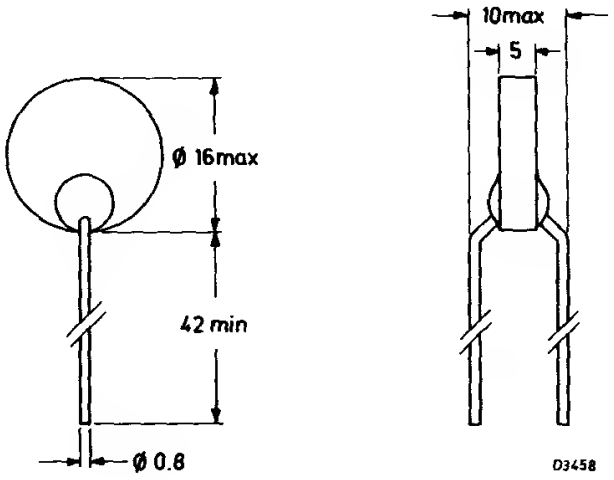
(2322 644 90005)

This data sheet should be read in conjunction with
NEGATIVE TEMPERATURE COEFFICIENT THERMISTORS - INTRODUCTORY NOTES

APPLICATION

For diode and switch protection in colour television receivers.

DIMENSIONS (millimetres)



ELECTRICAL DATA

Rated zero power resistance (R_{25})	B-value ($B\frac{25}{85}$) (approx.)	Code No.	Type No.
min. 15Ω	3350K	2322 644 90005	VA1104

Maximum current (r.m.s.) at T_{amb} = 55°C	2.2	A
Maximum resistance at T_{amb} = 25°C, $I_{r.m.s.}$ = 2.2A max.	1	Ω
Operating temperature category at zero power	-25 to +155	°C
at maximum power	0 to +55	°C
Dissipation factor (δ) approx.	17	mW/degC
Thermal time constant (τ) approx.	148	s
Maximum repetitive peak voltage (50 to 60Hz)	380	V

MOUNTING

The thermistor should be mounted to allow free circulation of air around it, and at least 10mm from a printing-wiring board.

ORDERING PROCEDURE

The thermistor should be ordered by the type or code number quoted in the table. They may be supplied in packs marked with either type or code number.

TESTS AND REQUIREMENTS

Tests	IEC68 test method only	Duration	Requirements $\Delta R/R_{25}(\%)$
Cold at -25°C	A	1000h	±10
Storage at +25°C	Ha	1000h	±10
Dry heat +155°C	B	1000h	±20
Thermal shock -25 to +155°C	Na	5 cycles	±20
Damp heat at +40°C	Ca	1000h	±15
Maximum current at T_{amb} = +25°C		1000h	±20
Cycling			
quick		250 cycles 5s on/5s off	±20
slow		2000 cycles 1 min on/9 min off	±20
Robustness of terminations	U		Leads should
tensile strength 20N	Ua	10s	neither come loose
bending 10N	Ub	2 times	nor break
Soldering solderability at 230 ±10 °C	T para 3.2.3	3 to 4s	Leads must be solderable with solder containing resin flux, initially, and after six months storage
resistance to heat at 230 ±10°C	para 3.2.4	3 to 4s	±2

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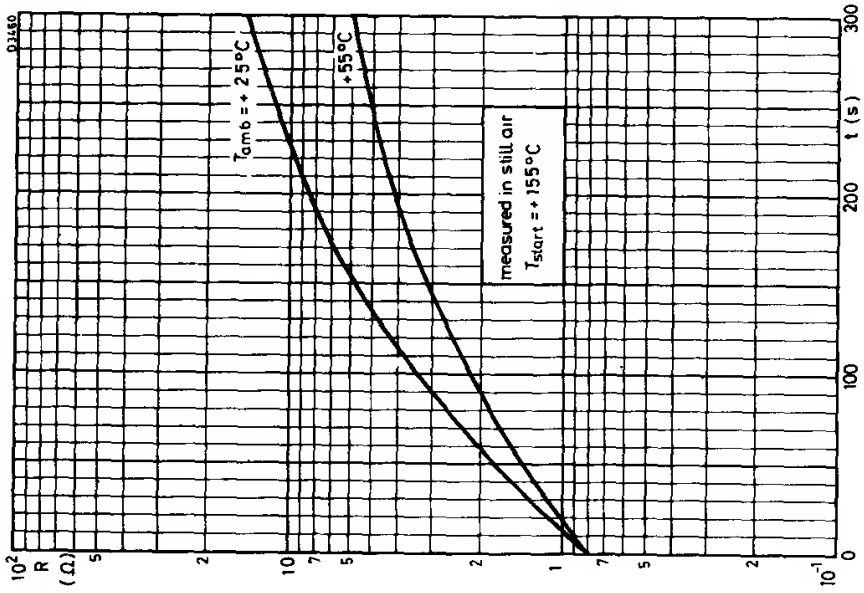
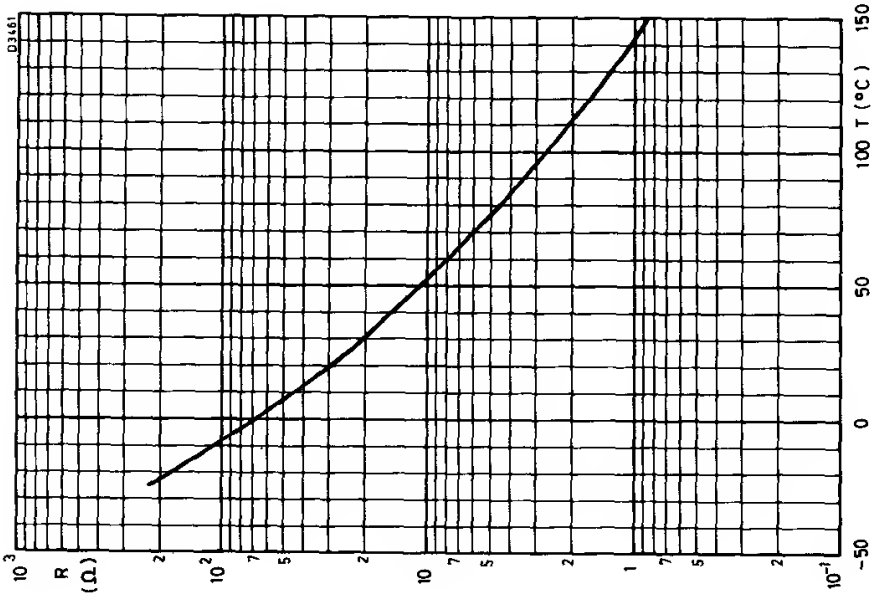
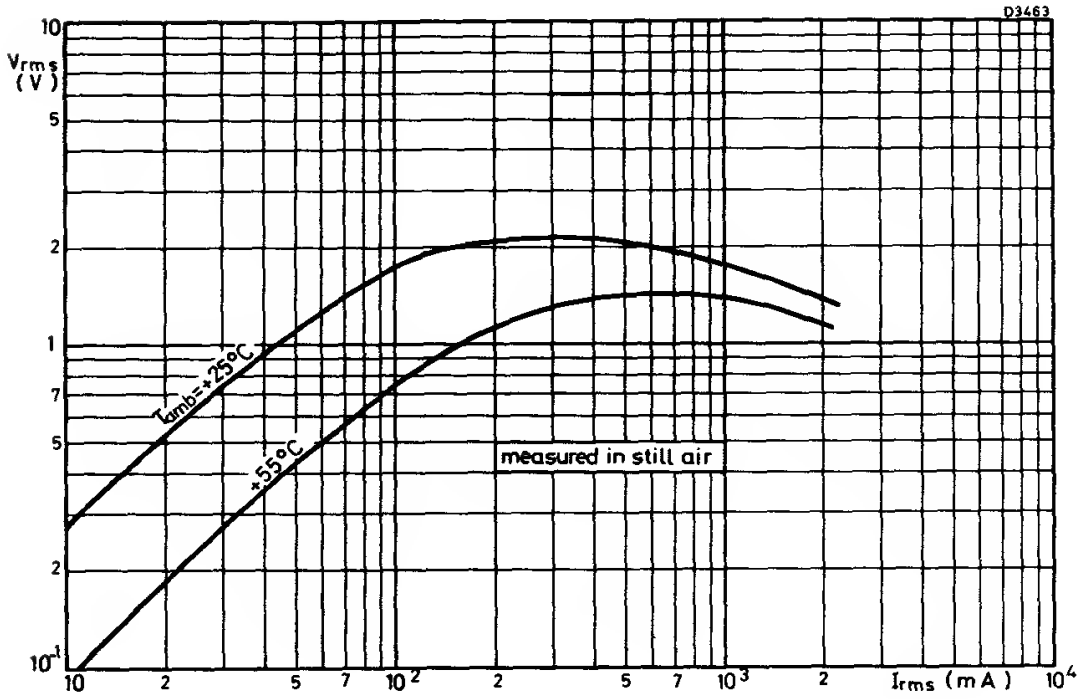


COOLING CHARACTERISTICS



RESISTANCE/TEMPERATURE CHARACTERISTIC



VOLTAGE/CURRENT CHARACTERISTICS