

ELECTRONIC TUBE REFERENCE

TEI1323

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Direct-view storage CRT for high-frequency storage oscilloscopes, with a four-inch graticulated flat screen, high writing speed, long storage time, and electrostatic focusing and deflection.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray
No fixed ratings recorded.
Published electrical data audited and retained in parameter table.

The TEI1323 is a direct-view storage cathode-ray tube for high-frequency storage oscilloscopes, with a four-inch graticulated flat screen, high writing speed, long storage time, and electrostatic focusing and deflection.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1972 Thomson CSF

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1972 THOMSON CSF

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The TEL	1323	The TEL 1323 is a direct view storage cathode ray
for high frequency (	50 MHz	for high frequency (50 MHz bandwidth) storage oscilloscope
Brightness * (screen voltage [1]	8 V	Brightness * (screen voltage 8 kV) adjustable up to 1500 cd/m2
Brightness * (screen voltage [2]	1500 V	Brightness * (screen voltage 8 kV) adjustable up to 1500 cd/m2
Heater voltage iinunnnnins	6.3 V	Heater voltage iinunnnnins 6.3 d.c. \'
Heater current i ittt it it it [1]	2 A	Heater current i ittt it it 2x0.3 A
Heater current i ittt it it it [2]	3 A	Heater current i ittt it it 2x0.3 A
Heatervoltage ciiiiiinnnnnnennnen,	6.3 V	Heatervoltage ciiiiiinnnnnnennnen, 6.3 a.c. \'
Heatercurrent	0 mA	Heatercurrent 0t
Cathodek'voltage,	0 V	Cathodek'voltage, 0 Vv
Grid g' [1]	1 V	Grid g'1 voltage (control grid or Wehnelt) 0 to -200 \
Grid g' [2]	0 V	Grid g'1 voltage (control grid or Wehnelt) 0 to -200 \
Grid g' [3]	-200 V	Grid g'1 voltage (control grid or Wehnelt) 0 to -200 \
Grid g' [1]	2 V	Grid g'2 voltage (accelerating electrode) max. 200 \Y

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid g' [2]	200 V	Grid g'2 voltage (accelerating electrode) max. 200 \Y
Grid g' [1]	3 V	Grid g'3 voltage (collimating electrode) max. 200 \Y)
Grid g' [2]	200 V	Grid g'3 voltage (collimating electrode) max. 200 \Y)
Grid g'b voltage (collecting electrode) max	300 V	Grid g'b voltage (collecting electrode) max. 300 Vv
Grid g' [1]	6 V	Grid g'6 voltage (backing electrode) max. —50to +20 Vv
Grid g' [2]	-50 V	Grid g'6 voltage (backing electrode) max. —50to +20 Vv
Grid g' [3]	20 V	Grid g'6 voltage (backing electrode) max. —50to +20 Vv
Viewingscreeng' [1]	7 V	Viewingscreeng'7voltage max. 9 kV
Viewingscreeng' [2]	9 V	Viewingscreeng'7voltage max. 9 kV
heater negative with respect to cathode max	125	heater negative with respect to cathode max. 125 \Y
heater positive with respect to cathode max	125	heater positive with respect to cathode max. 125 \
Cathode k voltage (negativevalue) max	2.5 V	Cathode k voltage (negativevalue) max. 2.5 kV
Grid g1 voltage TM (control grid or Wehnelt) [1]	0 V	Grid g1 voltage TM (control grid or Wehnelt) 0 to —200 \Y
Grid g1 voltage TM (control grid or Wehnelt) [2]	-200 V	Grid g1 voltage TM (control grid or Wehnelt) 0 to —200 \Y
Grid g2 voltage (accelerating electrode) max	200 V	Grid g2 voltage (accelerating electrode) max. 200 \")
Grid g3 voltage (beam centering electrode) max	200 V	Grid g3 voltage (beam centering electrode) max. 200 \'
Grid g4 voltage [®] (focusing electrode) max	1.2 V	Grid g4 voltage [®] (focusing electrode) max. 1.2 kV
Grid g5 voltage {(astigmatism) max	200 V	Grid g5 voltage {(astigmatism) max. 200 \Y
Grid g6 (geometry) e max	200	Grid g6 (geometry) e max. 200 \Y
heater negative with respect to cathode max	125	- heater negative with respect to cathode max. 125 \Y

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
heater positive with respect to cathode max	125	- heater positive with respect to cathode max. 125 \'
Gridg'tvoltage [1]	0 V	Gridg'tvoltage 0iiiiiuenn. —30 to 0 \
Gridg'tvoltage [2]	-30 V	Gridg'tvoltage 0iiiiiuenn. —30 to 0 \
Gridg'tvoltage [3]	0 V	Gridg'tvoltage 0iiiiiuenn. —30 to 0 \
Gridg2voltage t +	40 V	Gridg2voltage t +40 Vv
Gridg' [1]	3 V	Gridg'3voltage i ennnnan.. 50to 90 Vv
Gridg' [2]	50 V	Gridg'3voltage i ennnnan.. 50to 90 Vv
Gridg' [3]	90 V	Gridg'3voltage i ennnnan.. 50to 90 Vv
Gridg'bvoltage cçiiiiia	200 V	Gridg'bvoltage cçiiiiia.. 200 \
Grid g'	6 V	Grid g'6 voltage :
Viewing screen g' [1]	7 V	Viewing screen g'7 voltage çc.ouivun.n.. 8 kV
Viewing screen g' [2]	8 V	Viewing screen g'7 voltage çc.ouivun.n.. 8 kV
Cathodekvoltage	-1800 V	Cathodekvoltage —1800 A
Grid g1 voltage™* (forcut-off) — [1]	-100 V	Grid g1 voltage™* (forcut-off) —100to —40 \Y
Grid g1 voltage™* (forcut-off) — [2]	-40 V	Grid g1 voltage™* (forcut-off) —100to —40 \Y
Gridg2voltage e +	40 V	Gridg2voltage e +40 \
Gridgd voltage™™ [1]	200 V	Gridgd voltage™™ 200to 600 \Y
Gridgd voltage™™ [2]	600 V	Gridgd voltage™™ 200to 600 \Y
Gridgbvoltage t i e e 0to	80 V	Gridgbvoltage t i e e 0to 80 A
GridgBvoltage c.. it 0tc	80 V	GridgBvoltage c.. it 0tc 80 \
made of P3	1	made of P31 phosphor, provides the visual output.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published value [1]	1 A	1- Line width measured for beam current of 5 UA by the shrinking raster method, in non-store mode.
Published value [2]	5 A	1- Line width measured for beam current of 5 UA by the shrinking raster method, in non-store mode.
gradual erasure can be performed by applying a train of short pulses to the backing electrode g'	6	gradual erasure can be performed by applying a train of short pulses to the backing electrode g'6. Depending
Published value	1	1 h Heater
UTE [1]	14	UTE 14 C 25 Base g 52-4_L 2 h Heater
UTE [2]	25	UTE 14 C 25 Base g 52-4_L 2 h Heater
UTE [3]	52	UTE 14 C 25 Base g 52-4_L 2 h Heater
UTE [4]	-4	UTE 14 C 25 Base g 52-4_L 2 h Heater
UTE [5]	2	UTE 14 C 25 Base g 52-4_L 2 h Heater
h' Heater	12	h' Heater 12 g5 Astigmatism
htk' Heater cathode	13	htk' Heater cathode 13 gV Wehnelt

TUBE TINKER

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