

ELECTRONIC TUBE REFERENCE

TEI1114

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Dark-face direct-view storage CRT with electrostatic focusing and deflection, providing a bright uniform four-inch stored display for airborne radar and related electronic display applications.

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 TEI1114 is a dark-face direct-view storage cathode-ray tube with electrostatic focusing and deflection, providing a bright uniform four-inch display for airborne radar and related applications.

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
Brightness (screenvoltage=[1])	10 V	Brightness (screenvoltage=10kV) min. 720 cd/m2
Brightness (screenvoltage=[2])	720 V	Brightness (screenvoltage=10kV) min. 720 cd/m2
Heatervoltage	6.3 V	Heatervoltage 6.3 \")
Heatercurrent ccuvv.un	600 mA	Heatercurrent ccuvv.un. 0.6 A
Writing gun cathode k to all internal elements max	25	Writing gun cathode k to all internal elements max. 25 pF
Writing gun grid g1 to all internal elements RN max	25	Writing gun grid g1 to all internal elements RN max. 25 pF
Heaterf'voltage [1]	5.7 V	Heaterf'voltage 5.7 to 6.9 \')
Heaterf'voltage [2]	6.9 V	Heaterf'voltage 5.7 to 6.9 \')
Cathodek'voltage ccivvviu.nn	0 V	Cathodek'voltage ccivvviu.nn 0 \'
Grid g' [1]	1 V	Grid g'1 voltage {control grid or Wehnelt) 0 to-125 A
Grid g' [2]	0 V	Grid g'1 voltage {control grid or Wehnelt) 0 to-125 A
Grid g' [3]	125 V	Grid g'1 voltage {control grid or Wehnelt) 0 to-125 A
Grid g' [1]	2 V	Grid g'2 voltage (accelerating electrode}) 150 \'
Grid g' [2]	150 V	Grid g'2 voltage (accelerating electrode}) 150 \'
Grid g' [1]	3 V	Grid g'3 voltage {first collimating electrode) 200 \'

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid g' [2]	200 V	Grid g'3 voltage {first collimating electrode) 200 \'
Grid g' [1]	4 V	Grid g'4 voltage (second collimating electrode) 300 v
Grid g' [2]	300 V	Grid g'4 voltage (second collimating electrode) 300 v
Grid g' [1]	5 V	Grid g'5 voltage (collecting electrode) 300 v
Grid g' [2]	300 V	Grid g'5 voltage (collecting electrode) 300 v
Grid g' [1]	6 V	Grid g'6 voltage (backing electrode) 20 \Y
Grid g' [2]	20 V	Grid g'6 voltage (backing electrode) 20 \Y
Viewingscreeng' [1]	7 V	Viewingscreeng'7voltage 11.0 kV
Viewingscreeng' [2]	11 V	Viewingscreeng'7voltage 11.0 kV
Cathode k voltage negativevalue	3 V	Cathode k voltage negativevalue 3.0 kV
Grids g2 and g4 voltage (accelerating electrodes) connected to g'	2 V	Grids g2 and g4 voltage (accelerating electrodes) connected to g'2
Grid g3 voltage (focusing electrode) (note [1])	3 V	Grid g3 voltage (focusing electrode) (note 3) 3.0 kV
Grid g3 voltage (focusing electrode) (note [2])	3 V	Grid g3 voltage (focusing electrode) (note 3) 3.0 kV
Peak heater to cathodevoltage +	180 V	Peak heater to cathodevoltage +180 \'
Cathodek'voltage [1]	0 V	Cathodek'voltage 00 uunnn 0 \
Cathodek'voltage [2]	0 V	Cathodek'voltage 00 uunnn 0 \
Gridg'lvoltage adjust [1]	0 V	Gridg'lvoltage adjust 0 to -30 \Y
Gridg'lvoltage adjust [2]	-30 V	Gridg'lvoltage adjust 0 to -30 \Y
Gridg' [1]	2 V	Gridg'2voltage cciitiinan 100 Vv
Gridg' [2]	100 V	Gridg'2voltage cciitiinan 100 Vv

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gridg' [1]	3 V	Gridg'3voltage 0c0nvunn adjust 15 to 40 \"
Gridg' [2]	0 V	Gridg'3voltage 0c0nvunn adjust 15 to 40 \"
Gridg' [3]	15 V	Gridg'3voltage 0c0nvunn adjust 15 to 40 \"
Gridg' [4]	40 V	Gridg'3voltage 0c0nvunn adjust 15 to 40 \"
Gridg' [1]	4 V	Gridg'4voltage , adjust 25 to 50 Vv
Gridg' [2]	25 V	Gridg'4voltage , adjust 25 to 50 Vv
Gridg' [3]	50 V	Gridg'4voltage , adjust 25 to 50 Vv
GridgBbvoltage e n	120 V	GridgBbvoltage e n. . 120 Vv
Gridg' [1]	6 V	Gridg'6voltage 2.0 \
Gridg' [2]	2 V	Gridg'6voltage 2.0 \
Viewingscreeng' [1]	7 V	Viewingscreeng'7voltage c.c00vu.n 10.0 kV
Viewingscreeng' [2]	0 V	Viewingscreeng'7voltage c.c00vu.n 10.0 kV
Viewingscreeng' [3]	10 V	Viewingscreeng'7voltage c.c00vu.n 10.0 kV
Cathodekvoltage v vnnn	2 V	Cathodekvoltage v vnnn. 2.0 kV
Grid g1 voltage (for cut-off) (note3) adjust [1]	30 V	Grid g1 voltage (for cut-off) (note3) adjust 30 to - 60 A"
Grid g1 voltage (for cut-off) (note3) adjust [2]	60 V	Grid g1 voltage (for cut-off) (note3) adjust 30 to - 60 A"
Gridsg2andgdvoltage connected to g'	2 V	Gridsg2andgdvoltage connected to g'2
Gridg3voitage (note3) adjust [1]	280	Gridg3voitage (note3) adjust 280 to 660 \'
Gridg3voitage (note3) adjust [2]	660	Gridg3voitage (note3) adjust 280 to 660 \'
Published value	3	3- With respect to writing gun cathode.
made of aluminized P	20	made of aluminized P 20 phosphor, provides the visual output,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published value	73	73.00 ' A : k' Flood gun cathode
Published value	1	1 F : f Writing gun heater

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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