



ELECTRONIC TUBE REFERENCE

F7173

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

French F-series cathode-ray instrument tube documented for specialized measurement or visual-display service, with manufacturer-defined electron-optical, screen, focusing, and deflection characteristics for type F7173.

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

SECTION 1 Cathode Ray

No fixed ratings recorded.

Published maximum ratings and characteristics audited; remaining values retained densely in parameter table.

The F7173 is a four-inch direct-view storage cathode-ray tube capable of presenting bright stored images on a dark background, including viewing under high ambient illumination.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
THE F=T1 [1]	73	THE F=T173 is A 4 incH IATRON (DIRECT VIEW STORAGE CATHODE-RAY TUBE) THAT
THE F=T1 [2]	4	THE F=T173 is A 4 incH IATRON (DIRECT VIEW STORAGE CATHODE-RAY TUBE) THAT
CATHODE PRE=HEATING TIME	60	CATHODE PRE=HEATING TIME 60 SecoNDs
WRITE CATHODE TO ALL OTHER ELECTRODES	8	WRITE CATHODE TO ALL OTHER ELECTRODES 8.0 wur
FLooo CATHODE TO ALL OTHER ELECTRODES	3	FLooo CATHODE TO ALL OTHER ELECTRODES 3.0 uur
VIEWING SCREEN	10	VIEWING SCREEN 10 Kv DC
COLLECTOR	200	COLLECTOR 200 VDC
GrID # [1]	3	GrID #3 INTERNALLY CONNECTED TO ANODE #2
GrID # [2]	2	GrID #3 INTERNALLY CONNECTED TO ANODE #2
GrRID # [1]	2	GrRID #2 250 VDC ResPecT WRITE CATHODE
GrRID # [2]	250	GrRID #2 250 VDC ResPecT WRITE CATHODE
GrID #	1	GrID #1 O VDC RESPECT WRITE CATHODE
WR1TE CATHODE	-1000	WR1TE CATHODE -1000 VDC
HEATER=CATHODE	125	HEATER=CATHODE 125 VvOC
FLoopo CATHODE	200	FLoopo CATHODE 200 VODC
BAck ING ELECTRODE £	10	BAck ING ELECTRODE £ 10 VDC AND ERASE PULSES
COLLECTOR £	125	COLLECTOR £ 125 vDC
ANODE # [1]	2	ANODE #2 £ 44 voe

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ANODE # [2]	44	ANODE #2 £ 44 voe
CaTHODE	0	CaTHODE 0 VDC
HEATER [1]	6.3	HEATER 6.3 V AC or DC 1.4 A
HEATER [2]	1.4	HEATER 6.3 V AC or DC 1.4 A
HEATER	6.3	HEATER 6.3 V AC or DC HA
CATHODE [1]	-450	CATHODE -450 VDC 3 Ma
CATHODE [2]	3	CATHODE -450 VDC 3 Ma
GriD # [1]	1	GriD #1 (Note 1) =40 VDC RESPECT WRITE CATHODE
GriD # [2]	1	GriD #1 (Note 1) =40 VDC RESPECT WRITE CATHODE
GriD # [3]	4	GriD #1 (Note 1) =40 VDC RESPECT WRITE CATHODE
GrR1D # [1]	2	GrR1D #2 £150 VDC RESPECT WRITE CATHODE
GrR1D # [2]	150	GrR1D #2 £150 VDC RESPECT WRITE CATHODE
GR1D # [1]	3	GR1D #3 INTERNALLY CONNECTED TO ANODE #2
GR1D # [2]	2	GR1D #3 INTERNALLY CONNECTED TO ANODE #2
ANoDE # [1]	2	ANoDE #2 £35 To £50 VDC ADJUST FOR BEST COLL IMATION
ANoDE # [2]	35	ANoDE #2 £35 To £50 VDC ADJUST FOR BEST COLL IMATION
ANoDE # [3]	50	ANoDE #2 £35 To £50 VDC ADJUST FOR BEST COLL IMATION
GRID # [1]	1	GRID #1 (CuToFF - Note 1) -32 70 -45 VDC RESPECT WRITE CATHODE
GRID # [2]	1	GRID #1 (CuToFF - Note 1) -32 70 -45 VDC RESPECT WRITE CATHODE
GRID # [3]	-32	GRID #1 (CuToFF - Note 1) -32 70 -45 VDC RESPECT WRITE CATHODE
GRID # [4]	70	GRID #1 (CuToFF - Note 1) -32 70 -45 VDC RESPECT WRITE CATHODE
GRID # [5]	-45	GRID #1 (CuToFF - Note 1) -32 70 -45 VDC RESPECT WRITE CATHODE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ErASE PuLses [1]	4	ErASE PuLses 4-10 VoLts 100-5000 PRF .5 u/sec. wibDE
ErASE PuLses [2]	-10	ErASE PuLses 4-10 VoLts 100-5000 PRF .5 u/sec. wibDE
ErASE PuLses [3]	100	ErASE PuLses 4-10 VoLts 100-5000 PRF .5 u/sec. wibDE
ErASE PuLses [4]	-5000	ErASE PuLses 4-10 VoLts 100-5000 PRF .5 u/sec. wibDE
ErASE PuLses [5]	5	ErASE PuLses 4-10 VoLts 100-5000 PRF .5 u/sec. wibDE
WRITING SPEED To [1]	90	WRITING SPEED To 90% BRIGHTNESS 40000 In/skc.
WRITING SPEED To [2]	40000	WRITING SPEED To 90% BRIGHTNESS 40000 In/skc.
Erase Time (Note [1])	3	Erase Time (Note 3) 3 MILLISECONDS
Erase Time (Note [2])	3	Erase Time (Note 3) 3 MILLISECONDS
Published value [1]	3	3. ERASE TIME 1S THE SHORTEST TIME IN WHICH INFORMATION CAN BE REMOVED
Published value [2]	1	3. ERASE TIME 1S THE SHORTEST TIME IN WHICH INFORMATION CAN BE REMOVED
ANODE #	2	ANODE #2
Anode #	1	Anode #1 Grid #L A Backing Electrode
o Hester Heater Anode #	2	o Hester Heater Anode #2
~ Anode # [1]	1	~ Anode #1 Grid #3 N/C
~ Anode # [2]	3	~ Anode #1 Grid #3 N/C
Published value	2	2 Q Cathode Cathode Collector

TUBE TINKER

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