

ELECTRONIC TUBE REFERENCE

F7174

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 F7174.

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

The F7174 is a direct-view storage cathode-ray tube using separate writing and flooding guns for storage, display, and erasure of electronic information.

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]	74	THE F=T174 18 A b incH 1aTRON (DIRECT VieEw STORAGE CATHODE-RAY TUBE) THAT
THE F=T1 [2]	18	THE F=T174 18 A b incH 1aTRON (DIRECT VieEw STORAGE CATHODE-RAY TUBE) THAT
THE F=T1 [3]	1	THE F=T174 18 A b incH 1aTRON (DIRECT VieEw STORAGE CATHODE-RAY TUBE) THAT
CaTHoDE PRE-HEAT ING TIME	30	CaTHoDE PRE-HEAT ING TIME 30 SECONDS
GRID #	1	GRID #1 TO ALL OTHER ELECTRODES UUF
VIEWING SCREEN	18	VIEWING SCREEN 18 KvDC
COLLECTOR	250	COLLECTOR 250 vDC
ANoDE k4	150	ANoDE k4 150 vDC
ANoDE # [1]	3	ANoDE #3 150 vDC
ANoDE # [2]	150	ANoDE #3 150 vDC
ANODE #l	80	ANODE #1 80 vDC
CaTHODE	200	CaTHODE 200 vDC
HEATER-CATHODE	125	HEATER-CATHODE 125 vDC
HeaTer CATHODE	125	HeaTer CATHODE 125 vDC
CatHoDE	-1000	CatHoDE -1000 VDC
GRID # [1]	1	GRID #1 -150 VDC REeSPECT WRITE CATHODE
GRID # [2]	-150	GRID #1 -150 VDC REeSPECT WRITE CATHODE
GRID # [1]	2	GRID #2 £500 VDC RESPECT WRITE CATHODE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID # [2]	500	GRID #2 £500 VDC RESPECT WRITE CATHODE
GriD # [1]	3	GriD #3 INTERNALLY CONNECTED TO ANODE #2
GriD # [2]	2	GriD #3 INTERNALLY CONNECTED TO ANODE #2
PEAK VOLTAGE BETWEEN GRID #	2 V	PEAK VOLTAGE BETWEEN GRID #2 AND
GRID # [1]	1	GRID #1 or GriID #3 500 vDC
GRID # [2]	3	GRID #1 or GriID #3 500 vDC
GRID # [3]	500	GRID #1 or GriID #3 500 vDC
VIEWING SCREEN [1]	15	VIEWING SCREEN 15 KVDC (1.7 Ma Max.)
VIEWING SCREEN [2]	1.7	VIEWING SCREEN 15 KVDC (1.7 Ma Max.)
BACKING ELECTRODE £	10	BACKING ELECTRODE £10 VDC AND ERASE PULSES
CoLLECTOR £ [1]	180	CoLLECTOR £180 VDC .5 10 1.7 Ma
CoLLECTOR £ [2]	5	CoLLECTOR £180 VDC .5 10 1.7 Ma
CoLLECTOR £ [3]	10	CoLLECTOR £180 VDC .5 10 1.7 Ma
CoLLECTOR £ [4]	1.7	CoLLECTOR £180 VDC .5 10 1.7 Ma
AnoDE # [1]	3	AnoDE #3 £20 VDC 200 1o 500 ua
AnoDE # [2]	20	AnoDE #3 £20 VDC 200 1o 500 ua
AnoDE # [3]	200	AnoDE #3 £20 VDC 200 1o 500 ua
AnoDE # [4]	1	AnoDE #3 £20 VDC 200 1o 500 ua
AnoDE # [5]	500	AnoDE #3 £20 VDC 200 1o 500 ua
CATHODE [1]	0	CATHODE 00 VDC 4.7 Ma Max.
CATHODE [2]	4.7	CATHODE 00 VDC 4.7 Ma Max.
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 [1]	6.3	HEATER 6.3 V AC or DC .6A
HEATER [2]	6	HEATER 6.3 V AC or DC .6A
CATHODE [1]	450	CATHODE 450 vDC .5 710 1.5 Ma
CATHODE [2]	5	CATHODE 450 vDC .5 710 1.5 Ma
CATHODE [3]	710	CATHODE 450 vDC .5 710 1.5 Ma
CATHODE [4]	1.5	CATHODE 450 vDC .5 710 1.5 Ma

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gr1D # [1]	1	Gr1D #1 (Cut-oFF NoTe 1) -35 VDC RESPECT WRITE CATHODE
Gr1D # [2]	1	Gr1D #1 (Cut-oFF NoTe 1) -35 VDC RESPECT WRITE CATHODE
Gr1D # [3]	-35	Gr1D #1 (Cut-oFF NoTe 1) -35 VDC RESPECT WRITE CATHODE
GRID # [1]	2	GRID #2 £150 VDC RESPECT WRITE CATHODE
GRID # [2]	150	GRID #2 £150 VDC RESPECT WRITE CATHODE
GRID # [1]	3	GRID #3 INTERNALLY CONNECTED TO ANODE #2
GRID # [2]	2	GRID #3 INTERNALLY CONNECTED TO ANODE #2
AnoDE # [1]	2	AnoDE #2 25 1o 40 VoLTs ADJUST FOR BEST COLL IMATION
AnoDE # [2]	25	AnoDE #2 25 1o 40 VoLTs ADJUST FOR BEST COLL IMATION
AnoDE # [3]	1	AnoDE #2 25 1o 40 VoLTs ADJUST FOR BEST COLL IMATION
AnoDE # [4]	4	AnoDE #2 25 1o 40 VoLTs ADJUST FOR BEST COLL IMATION
ANoDE # [1]	3	ANoDE #3 10 v0 25 VoLTsS ADJUST FOR BEST COLL IMATION
ANoDE # [2]	10	ANoDE #3 10 v0 25 VoLTsS ADJUST FOR BEST COLL IMATION
ANoDE # [3]	25	ANoDE #3 10 v0 25 VoLTsS ADJUST FOR BEST COLL IMATION
GriD # [1]	1	GriD #1 (Cut-oFF NoTe 1) -28 to -U6 VorLts
GriD # [2]	1	GriD #1 (Cut-oFF NoTe 1) -28 to -U6 VorLts
GriD # [3]	-28	GriD #1 (Cut-oFF NoTe 1) -28 to -U6 VorLts
ERASE PuLSES [1]	3	ERASE PuLSES 3-12 VoLTs, 1.5 usec. wipe, 100-5000 PRF
ERASE PuLSES [2]	-12	ERASE PuLSES 3-12 VoLTs, 1.5 usec. wipe, 100-5000 PRF
ERASE PuLSES [3]	1.5	ERASE PuLSES 3-12 VoLTs, 1.5 usec. wipe, 100-5000 PRF
ERASE PuLSES [4]	100	ERASE PuLSES 3-12 VoLTs, 1.5 usec. wipe, 100-5000 PRF

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ERASE PuLSES [5]	-5000	ERASE PuLSES 3-12 VoLTs, 1.5 usec. wipe, 100-5000 PRF
Erase Time (Note [1])	3	Erase Time (Note 3) 3 MiLLISECONDS
Erase Time (Note [2])	3	Erase Time (Note 3) 3 MiLLISECONDS
Viewing Time (Note [1])	4	Viewing Time (Note 4) 2 SECONDS
Viewing Time (Note [2])	2	Viewing Time (Note 4) 2 SECONDS
Published value	3	3. ERASE TIME IS THE SHORTEST TIME IN WHICH INFORMATION CAN BE REMOVED
LAR, THE VIEWING SCREEN VOLTAGE SHOULD BE LIMITED	50 V	LAR, THE VIEWING SCREEN VOLTAGE SHOULD BE LIMITED 50 AS TO NEVER EXCEED
MINIMUM RESISTANCE OF THE HIGH VOLTAGE LEAD SHOULD BE	1 V	MINIMUM RESISTANCE OF THE HIGH VOLTAGE LEAD SHOULD BE 1 MEGOHM,
Q CENTER CIRCLE --- WRITING GUN, ET	1	Q CENTER CIRCLE --- WRITING GUN, ET-1 SMALL BUTTON MINTATURE
Grid #	1	Grid #1 Rear Wall
Anode # [1]	1	Anode #1 Grid #3, Anode #2
Anode # [2]	3	Anode #1 Grid #3, Anode #2
Anode # [3]	2	Anode #1 Grid #3, Anode #2
N/C Grid #	2	N/C Grid #2

TUBE TINKER

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