



ELECTRONIC TUBE REFERENCE

F7423

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 F7423.

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 F7423 is a five-inch direct-view storage cathode-ray tube designed to provide bright stored images that can be viewed in daylight.

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=T4 [1]	23	THE F=T423 1s A 5 1NcH IATRON (DIRECT VIEW STORAGE CATHODE-RAY TUBE) THAT
THE F=T4 [2]	1	THE F=T423 1s A 5 1NcH IATRON (DIRECT VIEW STORAGE CATHODE-RAY TUBE) THAT
THE F=T4 [3]	5	THE F=T423 1s A 5 1NcH IATRON (DIRECT VIEW STORAGE CATHODE-RAY TUBE) THAT
THE F=T4 [4]	1	THE F=T423 1s A 5 1NcH IATRON (DIRECT VIEW STORAGE CATHODE-RAY TUBE) THAT
CATHODE PRE-HEATING TIME	30	CATHODE PRE-HEATING TIME 30 Seconps
VIEWING SCREEN	410	VIEWING SCREEN 410 KV
ANODE #U #£	150	ANODE #U #£150 V
ANODE # [1]	3	ANODE #3 £150 Vv
ANODE # [2]	150	ANODE #3 £150 Vv
ANODE # [1]	2	ANODE #2 £150 Vv
ANODE # [2]	150	ANODE #2 £150 Vv
ANODE # [1]	1	ANODE #1 480 v
ANODE # [2]	480	ANODE #1 480 v
HEATER-CATHODE VOLTAGE £	125 V	HEATER-CATHODE VOLTAGE £125 v
WRITE CATHODE =	1000	WRITE CATHODE =1000 V
GRID # [1]	1 V	GRID #1 NEGATIVE VOLTAGE RESPECT WRITE CATHODE 150 V
GRID # [2]	150 V	GRID #1 NEGATIVE VOLTAGE RESPECT WRITE CATHODE 150 V
GRID # [1]	2	GRID #2 £150 v
GRID # [2]	150	GRID #2 £150 v

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GriID # [1]	3	GriID #3 A500 V ResPecT WRITE CATHODE
GriID # [2]	0	GriID #3 A500 V ResPecT WRITE CATHODE
HEATER=CATHODE VOLTAGE £	125 V	HEATER=CATHODE VOLTAGE £125 Vv
GRID # [1]	2	GRID #2 TO ANY DEFLECTING ELECTRODE £500 v
GRID # [2]	500	GRID #2 TO ANY DEFLECTING ELECTRODE £500 v
VIEWING SCREEN £ [1]	8.5	VIEWING SCREEN £8.5 KV DC 2 MA (Max.)
VIEWING SCREEN £ [2]	2	VIEWING SCREEN £8.5 KV DC 2 MA (Max.)
COLLECTOR £ [1]	180	COLLECTOR £180 vDC 2 MA (MAX.;
COLLECTOR £ [2]	2	COLLECTOR £180 vDC 2 MA (MAX.;
ANODE # [1]	4	ANODE #4 , £90 VDC 1.5 MA (Max.
ANODE # [2]	90	ANODE #4 , £90 VDC 1.5 MA (Max.
ANODE # [3]	1.5	ANODE #4 , £90 VDC 1.5 MA (Max.
ANODE # [1]	2	ANODE #2 £30 vDC 1.8 MA (Max.)
ANODE # [2]	30	ANODE #2 £30 vDC 1.8 MA (Max.)
ANODE # [3]	1.8	ANODE #2 £30 vDC 1.8 MA (Max.)
ANODE # [1]	1	ANODE #1 460 VDC 5.0 MA (Max.)
ANODE # [2]	460	ANODE #1 460 VDC 5.0 MA (Max.)
ANODE # [3]	5	ANODE #1 460 VDC 5.0 MA (Max.)
FLo00D CATHODE [1]	0	FLoO0D CATHODE 0 VDC 10.0 MA (Max.)
FLo00D CATHODE [2]	10	FLoO0D CATHODE 0 VDC 10.0 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
WRITE CATHODE [1]	-750	WRITE CATHODE -750 VDC 3.0 MA (Max.)
WRITE CATHODE [2]	3	WRITE CATHODE -750 VDC 3.0 MA (Max.)
Gr1D # [1]	1	Gr1D #1 Cutorr (Note 1) -60 VDC RESPECT WRITE CATHODE
Gr1D # [2]	1	Gr1D #1 Cutorr (Note 1) -60 VDC RESPECT WRITE CATHODE
Gr1D # [3]	-60	Gr1D #1 Cutorr (Note 1) -60 VDC RESPECT WRITE CATHODE
GRID # [1]	2	GRID #2 0 VDC
GRID # [2]	0	GRID #2 0 VDC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID # [1]	3	GRID #3 #165 VDC RESPECT WRITE CATHODE
GRID # [2]	165	GRID #3 #165 VDC RESPECT WRITE CATHODE
HEATER [1]	6.3	HEATER 6.3 VAC or DC .6 A
HEATER [2]	6	HEATER 6.3 VAC or DC .6 A
ANode # [1]	2	ANode #2 25 10 35 VDC ApJUST FOR BEST COLLIMATION
ANode # [2]	25	ANode #2 25 10 35 VDC ApJUST FOR BEST COLLIMATION
ANode # [3]	10	ANode #2 25 10 35 VDC ApJUST FOR BEST COLLIMATION
ANode # [4]	35	ANode #2 25 10 35 VDC ApJUST FOR BEST COLLIMATION
ANODE # [1]	3	ANODE #3 15 vo 30 VDC ADJUST FOR BEST COLLIMATION
ANODE # [2]	15	ANODE #3 15 vo 30 VDC ADJUST FOR BEST COLLIMATION
ANODE # [3]	30	ANODE #3 15 vo 30 VDC ADJUST FOR BEST COLLIMATION
ErAsE PuLses [1]	0	ErAsE PuLses 0 10 10 VOLT AMPLITUDE, 1 USECOND WIDE,
ErAsE PuLses [2]	10	ErAsE PuLses 0 10 10 VOLT AMPLITUDE, 1 USECOND WIDE,
ErAsE PuLses [3]	10	ErAsE PuLses 0 10 10 VOLT AMPLITUDE, 1 USECOND WIDE,
ErAsE PuLses [4]	1	ErAsE PuLses 0 10 10 VOLT AMPLITUDE, 1 USECOND WIDE,
Erase Time (Note [1])	3	Erase Time (Note 3) 12 MILLISECONDS
Erase Time (Note [2])	12	Erase Time (Note 3) 12 MILLISECONDS
VIEWING TIME gNorz [1]	4	VIEWING TIME gNorz 4) 10 SECONDS
VIEWING TIME gNorz [2]	10	VIEWING TIME gNorz 4) 10 SECONDS
Published value [1]	3	3. ERASE TIME 1S THE SHORTEST TIME IN WHICH A SIGNAL CAN BE REMOVED
Published value [2]	1	3. ERASE TIME 1S THE SHORTEST TIME IN WHICH A SIGNAL CAN BE REMOVED
Published value [1]	5	5. STORAGE TIME 1S THE TIME REQUIRED FOR THE BRIGHTNESS TO INCREASE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published value [2]	15	5. STORAGE TIME 15 THE TIME REQUIRED FOR THE BRIGHTNESS TO INCREASE
FROM CUTOFF TO	50	FROM CUTOFF TO 50 PER CENT OF FULL VALUE IN THE ABSENCE OF ERASE
EXCEED	10 kV	EXCEED 10 KV. THE FULL VOLTAGE SHOULD NOT BE APPLIED TO THE VIEWING
& GRID #	3	& GRID #3 (FOCUS)

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