



ELECTRONIC TUBE REFERENCE

E1012GP

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Ten-centimeter double-gun instrument CRT with bluish-green medium-short-persistence screen, post-deflection acceleration, and beam blanking for simultaneous waveform measurement.

GENERAL CHARACTERISTICS

BASE DESIGNATION	14-pin all glass	BASE PINS	14
NOMINAL HEATER	6.3 V / 300 mA	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.

Electrical construction shared with E10-12GH; bluish-green medium-short-persistence screen.

10 cm double-gun instrument CRT with bluish-green medium-short-persistence screen. Same E10-12 electrical construction, post-deflection acceleration, and beam blanking as the listed series.

SOURCE OPERATING CONDITIONS

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Final accelerator voltage Vg8(	8 V	bluish-green medium-short-persistence screen; Quick Reference Data

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage Vi	6.3 V	bluish-green medium-short-persistence screen; Heating
Heater current If	300 mA	bluish-green medium-short-persistence screen; Heating
Post deflection accelerator helix resistance: min	100 MΩ	bluish-green medium-short-persistence screen; Deflection
Final accelerator voltage Vgg(fl)	3000 V	bluish-green medium-short-persistence screen; Deflection
Intergun shield voltage Vg,	10004100 V	bluish-green medium-short-persistence screen; Deflection
Geometry control electrode voltage Vg6	6 V	bluish-green medium-short-persistence screen; Deflection
beam blanking of a current Igg(fl) =10 nA AVg3 max	10 a	bluish-green medium-short-persistence screen; Deflection
Intergun shield voltage Vg7 max	7 V	bluish-green medium-short-persistence screen; Limiting Values
Geometry control electrode voltage Vg6 max	6 V	bluish-green medium-short-persistence screen; Limiting Values
Beam blanking electrode voltage Vg3 max	3 V	bluish-green medium-short-persistence screen; Focusing
cathode positive Ve max	200 V	bluish-green medium-short-persistence screen; Focusing

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
cathode negative "Vig max	125 v	bluish-green medium-short-persistence screen; Focusing
Average cathode current Ik max	300 uA	bluish-green medium-short-persistence screen; Focusing
Control grid circuit resistance Rg	1 MΩ	bluish-green medium-short-persistence screen; Focusing
4) The sensitivity at a deflection of less than	4 a	bluish-green medium-short-persistence screen; Focusing
fer from the sensitivity at a deflection of	25 a	bluish-green medium-short-persistence screen; Focusing
Maximum screen dissipation	3 W	bluish-green medium-short-persistence screen; Promoted published datasheet value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to all other elements Cgl	1 pF	bluish-green medium-short-persistence screen; Capacitances
Cathode to all other elements Ck S5 pF	5 pF	bluish-green medium-short-persistence screen; Capacitances

TUBE TINKER

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