



ELECTRONIC TUBE REFERENCE

S12

Voltage - Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Miniature screen-grid amplifier valve for low-voltage deaf-aid and battery-amplifier service. Its low heater demand suits compact portable equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.4 V / 50 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode

No fixed ratings recorded.

Published maximum ratings and characteristics audited; remaining useful numerical data retained in parameter table.

The S12 is a miniature screen-grid amplifier valve for low-voltage deaf-aid and battery amplifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

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

1955 MARCONI

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MENT CURRENT [1]	0 mA	MENT CURRENT 0-06.
MENT CURRENT [2]	-6 A	MENT CURRENT 0-06.
L [1]	3 pF	L 3 CURETREH 4T E530 Inter-electrode capacities.
L [2]	4 pF	L 3 CURETREH 4T E530 Inter-electrode capacities.
L [3]	30 pF	L 3 CURETREH 4T E530 Inter-electrode capacities.
H.T. voltage [1]	36 V	H.T. voltage 36 36 36 52 52 52
H.T. voltage [2]	36 V	H.T. voltage 36 36 36 52 52 52
H.T. voltage [3]	36 V	H.T. voltage 36 36 36 52 52 52
H.T. voltage [4]	52 V	H.T. voltage 36 36 36 52 52 52
H.T. voltage [5]	52 V	H.T. voltage 36 36 36 52 52 52
H.T. voltage [6]	52 V	H.T. voltage 36 36 36 52 52 52
Anode load resistance [1]	150000 ohm	Anode load resistance 150,000 250,000 Choke 150,000 250,000 Choke
Anode load resistance [2]	250000 ohm	Anode load resistance 150,000 250,000 Choke 150,000 250,000 Choke
Anode load resistance [3]	150000 ohm	Anode load resistance 150,000 250,000 Choke 150,000 250,000 Choke
Anode load resistance [4]	250000 ohm	Anode load resistance 150,000 250,000 Choke 150,000 250,000 Choke
Screen feed resistance I meg. Imeg. [meg. meg. I	5 ohm	Screen feed resistance I meg. Imeg. [meg. meg. I.5meg. meg.
Total cathode current [1]	0.1 mA	Total cathode current 0.1 } 0.1 0.16 0.18 0.12 0.27 mA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total cathode current [2]	0.1 mA	Total cathode current 0.1 } 0.1 0.16 0.18 0.12 0.27 mA
Total cathode current [3]	0.16 mA	Total cathode current 0.1 } 0.1 0.16 0.18 0.12 0.27 mA
Total cathode current [4]	0.18 mA	Total cathode current 0.1 } 0.1 0.16 0.18 0.12 0.27 mA
Total cathode current [5]	0.12 mA	Total cathode current 0.1 } 0.1 0.16 0.18 0.12 0.27 mA
Total cathode current [6]	0.27 mA	Total cathode current 0.1 } 0.1 0.16 0.18 0.12 0.27 mA
Grid bias [1]	0	Grid bias .. 0 0 0 0 0 0
Grid bias [2]	0	Grid bias .. 0 0 0 0 0 0
Grid bias [3]	0	Grid bias .. 0 0 0 0 0 0
Grid bias [4]	0	Grid bias .. 0 0 0 0 0 0
Grid bias [5]	0	Grid bias .. 0 0 0 0 0 0
Grid bias [6]	0	Grid bias .. 0 0 0 0 0 0
Stage gain [1]	24	Stage gain .. 24 26 57 29 32 57
Stage gain [2]	26	Stage gain .. 24 26 57 29 32 57
Stage gain [3]	57	Stage gain .. 24 26 57 29 32 57
Stage gain [4]	29	Stage gain .. 24 26 57 29 32 57
Stage gain [5]	32	Stage gain .. 24 26 57 29 32 57
Stage gain [6]	57	Stage gain .. 24 26 57 29 32 57
Published value	1	1 Anode Anode Screen
Published value	2	2 Grid Grid Grid
Published value	3	3 Filament Filament Filament
Published value	4	4 Filament Filament Filament

TUBE TINKER

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