

ELECTRONIC TUBE REFERENCE

A1714

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Low-noise planar triode for RF oscillator and amplifier service, characterized around 45 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 490 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.0085 S
AMPLIFICATION FACTOR	45
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM GRID DISSIPATION	0.1 W
MAXIMUM CATHODE CURRENT	45 mA
Planar VHF/UHF triode.	

The A1714 is a low-noise planar triode for radio-frequency oscillator and amplifier service, with characteristics specified around 45 MHz.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Noise factor*	2	Noise factor* 2 db
Teq noise ref gl	500	Teq noise ref gl 500
cg-k (heater earthed) [1]	22	cg-k (heater earthed) 22 3-6 pF
cg-k (heater earthed) [2]	3	cg-k (heater earthed) 22 3-6 pF
cg-k (heater earthed) [3]	-6	cg-k (heater earthed) 22 3-6 pF
Cg-all (less anode) [1]	2	Cg-all (less anode) 2:25 4-0 pF
Cg-all (less anode) [2]	25	Cg-all (less anode) 2:25 4-0 pF
Cg-all (less anode) [3]	4	Cg-all (less anode) 2:25 4-0 pF
Cg-all (less anode) [4]	0	Cg-all (less anode) 2:25 4-0 pF
Ca-k (heater earthed) [1]	0	Ca-k (heater earthed) 0-065 — pF
Ca-k (heater earthed) [2]	-65	Ca-k (heater earthed) 0-065 — pF
The circuit of fig	1	The circuit of fig. 1 will give good signal-to-noise ratio at frequencies of the order of
capacitors " C " are of the feed-through type. For a frequency of	500 MHz	capacitors " C " are of the feed-through type. For a frequency of 500 Mc/s the induct-
outputs at frequencies up to	1000 MHz	outputs at frequencies up to 1,000 Mc/s.

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
up to	1000 MHz	—
up to 1000 Mc/s or as a low noise amplifier at frequencies up to about	300 MHz	—
V _{h-k(pk)}	90 V	MAXIMUM RATINGS (Design centre)
r _{in} (	45 MHz	a subsidiary of THE GENERAL ELECTRIC CO LTD OF ENGLAND
c _{g-all} (	45 MHz	a subsidiary of THE GENERAL ELECTRIC CO LTD OF ENGLAND
c _{g-all} (45 Mc/s)	5 pF	a subsidiary of THE GENERAL ELECTRIC CO LTD OF ENGLAND
Noise factor (	45 MHz	a subsidiary of THE GENERAL ELECTRIC CO LTD OF ENGLAND
Noise factor (45 Mc/s)	1.9 dB	a subsidiary of THE GENERAL ELECTRIC CO LTD OF ENGLAND

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ca-g	0.9 pF	CAPACITANCES (of unscreened valve)
Ca-all less g	1.3 pF	CAPACITANCES (of unscreened valve)
tC _{g-all} less a	3 pF	CAPACITANCES (of unscreened valve)
+Measured at	1 MHz	CAPACITANCES (of unscreened valve)

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