ELECTRONIC TUBE REFERENCE

CV2381

Specialized - Microwave Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MICROWAVE

British CV designation for an O-type backward-wave oscillator intended for wideband microwave oscillation and modulation service.

General characteristics

BASE DESIGNATION	A7-17	**BASE PINS**	7
NOMINAL HEATER	6.3 V / 2.4 A	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Microwave

No fixed ratings recorded.

Microwave/special-function section; schema has no directly applicable promoted electrode fields; published electrical data preserved in parameters.

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SOURCE OPERATING CONDITIONS

1971 English Electric Valve

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

1971 ENGLISH ELECTRIC VALVE

Section 1 · Microwave

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
rs, sui tab	**4.5**	rs, sui tab le for pulse oF am 2410 4.5
’ Frequency rang	**400**	’ Frequency rang - - - - 90 to 400
Heater voltage	**6.3**	Heater voltage 6.3 \
Heater current	**2.4 A**	Heater current 2.4 A
Cathode pre-heating tlme (rmmmum)	**2 min**	Cathode pre-heating tlme (rmmmum) 2.0 min
cathode to grid, anode and delay line	**10 pF**	cathode to grid, anode and delay line 10 pF
grid to cathode, anode and delay line	**15 pF**	grid to cathode, anode and delay line 15 pF
anode to cathode, grid and delay line	**16 pF**	anode to cathode, grid and delay line 16 pF
delay line to cathode, grid and anode	**10 pF**	delay line to cathode, grid and anode 10 pF
delay line to outer shell	**300 pF**	delay line to outer shell 300 pF
Heater voltage	**6.8**	Heater voltage 5.7 6.8 \
Heater starting current (peak)	**4 A**	Heater starting current (peak) — 4.0 A
Delay line voltage	**1500**	Delay line voltage 160 1500 \
Delay line dissipation	**50 W**	Delay line dissipation - 50 W
Anode current	**20 mA**	Anode current - 20 mA
Solencid voltage (N1034S)	**24**	Solencid voltage (N1034S) 16 24 \
Solencid current {N1034S)	**7 A**	Solencid current {N1034S) 3.0 7.0 A
Heater voltage	**6.3**	Heater voltage 6.3 \Y%
Grid voltage	**0**	Grid voltage 0 \Y

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Load v.s.w.r	**1 v**	Load v.s.w.r. 1.2:1 max
Heater current	**2.6 A**	Heater current 2.1 2.4 2.6 A
Anode current	**20 mA**	Anode current - 3.0 20 mA
Solenoid voltage	**24**	Solenoid voltage L. 16 21 24 Vv
The optimum anode voltage and solenoid current {for N1034S) are	**1034**	The optimum anode voltage and solenoid current {for N1034S) are
With a mismatch of v.s.w.r. 1.56:1, varied through all phases	**1 a**	With a mismatch of v.s.w.r. 1.56:1, varied through all phases.
bandwidth, centred at least 20MHz from the carrier	**20**	bandwidth, centred at least 20MHz from the carrier. For low noise
[020	**4**	[020 i | 4+ GRID VOLTAGE ov
. : ANODE VOLTAGE 150V	**150**	. : ANODE VOLTAGE 150V
3930	**3930**	3930 GRID VOLTAGE OV!
3931	**150**	3931 ! ANODE VOLTAGE 150V
1 Heater	**1**	1 Heater
2 Cathode	**2**	2 Cathode
3 Anode	**3**	3 Anode
4 Grid	**4**	4 Grid
7 Heater	**7**	7 Heater
1 Heater	**1**	1 Heater
2 Cathode	**2**	2 Cathode
<B>	**3**	<B> 3 Anode
4 Grid	**4**	4 Grid
5*	**5**	5* Delay line
7 Heater	**7**	7 Heater

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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