

ELECTRONIC TUBE REFERENCE

CV6023

Specialized - Microwave Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MICROWAVE

Equivalent designation for the N1034A O-type backward-wave oscillator family, intended for wideband microwave oscillator 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.

TA ers and ve osc ill ato rs for wide band Q-type pbackwar plitude modutati

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 (rmmum)	2 min	Cathode pre-heating tlme (rmmum) 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
	3	 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.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

