

RAYTHEON

TECHNICAL
INFORMATION
SERVICE

Technical Information

CK7626

SUBMINIATURE
PENTODE

The CK7626 is a filament type pentode power amplifier of sub-miniature construction designed for R.F. Amplifier and frequency multiplier service in portable and mobile equipment. The CK7626 is suitable for intermittent service applications such as "push to talk" transmitters which do not require long life characteristics. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.

ELECTRICAL DATA

FILAMENT RATINGS:

Filament Voltage	1.25	Volts
Filament Current	0.125	Amps

DIRECT INTERELECTRODE CAPACITANCE: (Unshielded)

Grid to Plate: (g1 to p)	.10	uuf
Input: (g1 to -f + g2 + g3)	3.2	uuf
Output: (p to -f + g2 + g3)	2.9	uuf

RATINGS - ABSOLUTE MAXIMUM VALUES:

Filament Voltage (dc) #	1.1-1.4	Vdc
Plate Voltage	135	Vdc
Grid #2 Voltage	135	Vdc
Cathode Current	12	mA dc
Plate Dissipation	1.1	Watts
Grid #2 Dissipation	0.4	Watts
Grid #1 Voltage	-55	Vdc

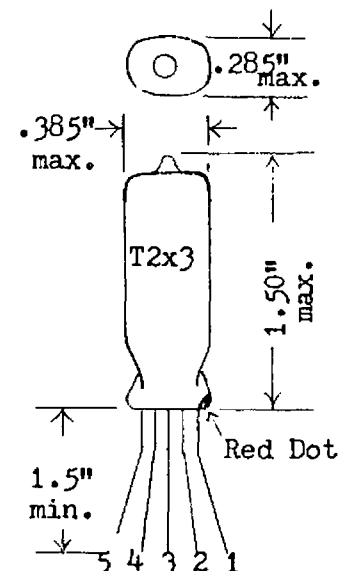
TENTATIVE DATA

from JEDEC release #3843, Aug. 13, 1962

MECHANICAL DATA

ENVELOPE...T2x3 glass
OUTLINE...JEDEC 2-1
(MIL 8-8)
BASE...Pinch Press
LEADS...0.016" tinned
Flexible Leads
Leads 0.048"
Center-to-Center
MOUNTING POSITION..
ANY

OUTLINE DETAILS



TERMINIAL CONNECTIONS:

Lead 1 Plate (red dot)
Lead 2 Grid #2
Lead 3 Filament
Negative Δ , G3
Lead 4 Grid #1
Lead 5 Filament
Positive, Δ G3

CK7626

SUBMINIATURE
PENTODE

CHARACTERISTICS AND TYPICAL OPERATION: Class "C" R.F. Amplifier at 175 Mc

Plate Voltage	120	Vdc
Grid #2 Supply Voltage	120	Vdc
Plate Current	10	mAdc
Grid #2 Current	2	mAdc
Grid #1 Current	0.2	mAdc
Power Output	600	mW
Grid #1 Circuit Resistance	100	Kilohms
E Signal (RMS)	16	Vac
Grid #2 Resistance	--	--
Adjust for $I_k = 12$ mAdc	--	--

CHARACTERISTICS AND TYPICAL OPERATION: Class "A" Amplifier

Plate Voltage	110	Vdc
Grid #2 Voltage	110	Vdc
Grid #1 Voltage	-6	Vdc
Plate Current	7.0	mAdc
Grid #2 Current	1.1	mAdc
Transconductance	1950	umhos

- △ Grid #3 is comprised of two separate deflector plates, one of which is connected to lead 3 and the other to lead 5.
- * Operation at all maximum ratings simultaneously is not permitted.
- # Operation at reduced filament voltage requires derating of Absolute Maximum values.

TENTATIVE DATA