



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.

### 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

### ELECTRICAL DATA

#### FILAMENT RATINGS:

Filament Voltage	1.25	Volts
Filament Current	0.125	Amps

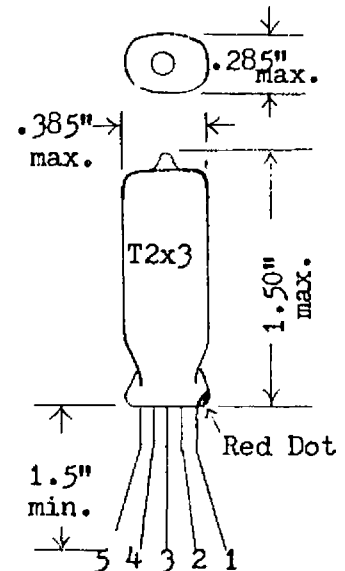
#### DIRECT INTERELECTRODE CAPACITANCE: (Unshielded)

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	mAdc
Plate Dissipation	1.1	Watts
Grid #2 Dissipation	0.4	Watts
Grid #1 Voltage	-55	Vdc

### OUTLINE DETAILS



### TERMINIAL CONNECTIONS:

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

### TENTATIVE DATA

from JEDEC release #3843, Aug. 13, 1962

CK7626

SUBMINIATURE  
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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