PHILCO RECEIVING TUBE DATA SHEET

TENTATIVE

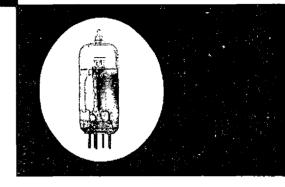
DESCRIPTION

Type 2EN5 is a double diode tube with common cathode, designed for service in television receivers as a phase comparator. It is intended for use with a series heater connection, and has the controlled heater warm-up characteristic. It is particularly suitable for use where low heater input is required.

Outline Drawing		5-2
Bulb		
Base	Small Butt	on Miniature
Maximum Diameter		
Maximum Overall Length		21/8 inches
Maximum Seated Height		17/ ₈ inches
Basing		7 FL
1—No Connection	5—Cathode	
2—Diode #2	6—Internal Shield	
3—Heater	7—D	iode #1
4—Heater		
Mounting Position		Any
ELECTRICAL DATA		
Direct Interelectrode Capacitances		
_		Shielded*
Diode Input: p to $(h + k + I.S.)$ each unit		3.8 $\mu\mu$ f
Coupling: Plate to Plate 1P to 2P (max)	. 1.3	3.8 $\mu\mu$ f
*External shield #316 connected to pin #6		
Heater Characteristics		
Heater Voltage		2.1 volts
Heater Current		
Heater Warm-up Time (Note 1)		11 sec
Maximum Ratings (Design-Maximum Rating	Suctom)	(Note 2)
Diode Current for Continuous Operation (Each Pl		
Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
(Total DC and Peak)200 volts		
**		

(Over)

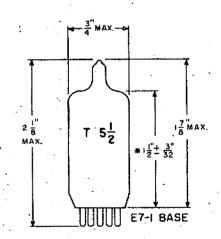
2EN5 DOUBLE DIODE TUBE



GENERAL DESCRIPTION

Miniature double diode for TV phase comparator applications.

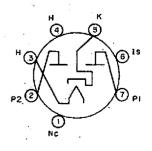
DIMENSIONAL OUTLINE AND MECHANICAL SPECIFICATIONS



MEASURED FROM BASE SEAT TO BULB-TOP LINE

AS DETERMINED BY RING GAUGE OF 7 15 LD.

5 – 2



7FL

BASING DIAGRAM
Bottom View of Base

Diode Voltage Drop (Approx) for $I_b = 20$ ma each plate.....5.0 volts

Heater Positive with Respect to Cathode

Typical Operating Conditions and Characteristics

NOTE 1—Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of its rated value after applying four times the rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three times the rated heater voltage divided by the rated heater current.

NOTE 2—Design-maximum ratings are limiting values of operating and environmental conditions applicable to a bogey electron device of a specified type as defined by its published data, and should not be exceeded under the worst probable conditions. The device manufacturer chooses these values to provide acceptable serviceability of the device, taking responsibility for the effects of changes in operating conditions due to variations in device characteristics. The equipment manufacturer should design so that initially and throughout life no design-maximum value for the intended service is exceeded with a bogey device under the worst probable operating conditions with respect to supply-voltage variation, equipment component variation, equipment control adjustment, load variation, signal variation, and environmental conditions.

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