



ELECTRONIC TUBE REFERENCE

12DK5

Voltage Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Remote-cutoff miniature pentode for automobile-receiver IF and RF amplification, optimized for low plate voltage and automatic-volume-control operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	12.6 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.0033 S
MAXIMUM PLATE VOLTAGE	16 V
MAXIMUM SCREEN VOLTAGE	16 V
Source-derived physical section; applicable promoted ratings are populated from the printed sheet.	

V%stinghouse RELIATRON® tusss 12DK5 October 29, 1956 RF and IF Pentode Type 12DK5 The 12DK5 is a 9-pin miniture pentode designed for service as an intermediate frequency amplifier in sutomoble receivers with a transistor output stage whose driving power is taken from the diode detector, The 12DK5 may also be used as a radio frequency amplifier since it features high transconductance at low plate and grid 2 voltages and low grid l-plate capacity, The cutoff chsracter- istics of the 12DXK5 are especially suitable for ave operation, GENERAL DATA Blectrical: Cathode. * @ o o & 5 o & o & e & » Coated Unipotential Heater: o Voltagey v « « o o o « o 12,6 Volts Current, , « v ¢« ¢ ¢ ¢ = & 0,3 Ampere Direct Interelectrode Capacitances (shielded) :# Grid to Plate. e & @ * 3 @ o 5 & e » 00045 uuf Inputo .) e L] [J

- . L) L] L] * » . [» 905 uuf Ou—tput--.--o..-..... 2.65 uuf Mechaenical: Blllboo'-o— ooaoc.l'ou.T_é'-l/z - L]
Base.] L] * * * LJ Miniature 9-pin (JETEC E9-1) o L] ° Basing, .

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Westinghouse

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

1947 WESTINGHOUSE

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
plate and grid	2 V	plate and grid 2 voltages and low grid l-plate capacity, The cutoff chracter-

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltagey v « « « o o o « o	6 V	Voltagey v « « « o o o « o 12,6 Volts
Current, , « v ¢« ¢ ¢ ¢ = &	3 A	Current, , « v ¢« ¢ ¢ ¢ = & 0,3 Ampere
Grid to Plate. e & @ *	45 pF	Grid to Plate. e & @ * 3 @ o 5 & e » 00045 uuf
Inputo .) e L] [J - . L) L] L] * » . [»	905 pF	Inputo .) e L] [J - . L) L] L] * » . [» 905 uuf
Ou—tput---.---o	2.65 pF	Ou—tput---.---o..... 2.65 uuf
Plate L] * - * Ld bd * . . - L] [	16 V	Plate L] * - * Ld bd * . . - L] [4 . . 16 max. Volts
Screen Voltage. v v v o v o o o o «	16 V	Screen Voltage. v v v o v o o o o « 16 max. Volts
Heater-Cethode Voltage,	16 V	Heater-Cethode Voltage, ... 16 max, Volts
Grigé	1 V	Grigé 1 Voltage
Plate Voltage. v o o o o	6 V	Plate Voltage. v o o o o 4 o o o o & 12, 6 Volts
Grid	0 V	Grid 3 (suppressor) Voltage, ... 0 Volts
Grid	6 V	Grid 2 (Screen) Voltsge. o v o o « » 12,6 Volts
Plate Resistance	100000 ohm	Plate Resistance 100,000 Ohms
Grid Leak Resistor (Bypassed),	2.2 Mohm	Grid Leak Resistor (Bypassed), . . . 2.2 Megohms
Grid Voltsge for I,	2.5 V	Grid Voltsge for I, 10 ua, ., . . 2.5 Volts
When used in automative service from »	12 V	When used in automative service from » 12 volt source under no circum-

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
stances should the heater voltage be less than	10 V	stances should the heater voltage be less than 10.0 volts or more than
15.9 volts, These extreme variations in heater voltage may be tolerated	15.9 V	15.9 volts, These extreme variations in heater voltage may be tolerated