

RADIO MANUFACTURERS ASSOCIATION

SUITE 701-4 AMERICAN BUILDING
1317 F STREET, N. W.
WASHINGTON, D. C.



R.M.A. DATA BUREAU
90 West Street
New York, N. Y.

Release No. 486

April 25, 1946

To
Tube Engineers:

Registration has been made by the RMA
Data Bureau of the vacuum tube type designation

2H21 (Registration No. 1123)

as defined by the characteristics and ratings
given in the attached data on application of:

General Electric Company
Schenectady, New York

Respectfully yours,

RMA DATA BUREAU

By

A handwritten signature in dark ink, appearing to read "James C. A.", is written over a horizontal line. The signature is stylized and cursive.

LCFHorle/CAP

2H21 PHASITRON
TECHNICAL INFORMATION

GENERAL DESCRIPTION

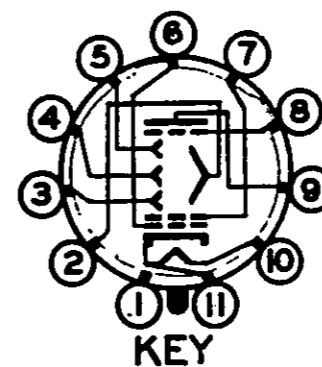
Principal Application: Phase-modulator tube for use at frequencies below 500 kilocycles

Characteristics

Cathode-Indirectly Heated	
Heater Voltage	6.3 Volts D-C
Heater Current	0.3 Ampere
Direct Interelectrode Capacitances, Approximate	
Deflectors to Plate 1	0.08 Micromicrofarads
Plate 1 to Plate 2	4.0 Micromicrofarads
Frequency for Maximum Ratings	500 Kilocycles
Mounting Position-Any	

Terminal Connections

Pin 1 - Internal connection
Pin 2 - Deflector No. 4
Pin 3 - Deflector No. 1
Pin 4 - Deflector No. 2
Pin 5 - Deflector No. 3
Pin 6 - Grid No. 1
Pin 7 - Grid No. 2
Pin 8 - Plate No. 1
Pin 9 - Plate No. 2
Pin 10 - Heater
Pin 11 - Heater and Cathode



MAXIMUM RATINGS

Plate No. 1 Voltage	300 Volts D-C
Plate No. 2 Voltage	300 Volts D-C
Deflectors No. 1, 2, and 3 Voltage	100 Volts D-C
Deflector No. 4 Voltage	100 Volts D-C
Grid No. 1 Voltage	25 Volts D-C
Grid No. 2 Voltage	150 Volts D-C
Cathode Current	6 Milliamperes D-C

CHARACTERISTICS AND TYPICAL OPERATION

Phase Modulator	
Plate No. 1 Voltage	200 Volts D-C
Plate No. 2 Voltage	250 Volts D-C
Deflectors No. 1, 2, and 3 Voltage	85 Volts D-C
Deflector No. 4 Voltage	60 Volts D-C
Grid No. 1 Voltage	10 Volts D-C
Grid No. 2 Voltage	25 Volts D-C
Cathode Current	4 Milliamperes D-C
Radio-Frequency Driving Voltage, phase to neutral	35 Volts RMS

CHARACTERISTICS AND TYPICAL OPERATION (Continued)

Audio-Modulating Power for $\pm 180^\circ$ Phase Shift, Approximate	50 Milliwatts
Radio-Frequency Output Voltage	4 Volts RMS
Distortion at $\pm 180^\circ$ Phase Shift	1.4 Per Cent

