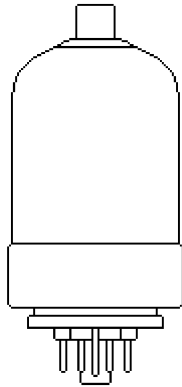




**TDP**  
**TUBE 6146B / QE05/40**

GENERAL DESCRIPTION



The 6146B / QE05/40 is a small, lightweight beam-power pentode designed for service as a very high frequency amplifier. It has a short sturdy structure and is ideal for mobile and compact stationary equipment. Due to its superior design, the 6146B / QE05/40 has high power sensitivity, high perveance, and low driving power requirements. The heater-cathode structure of the 6146B / QE05/40 is designed to supply ample tube current with heater voltages from 6.0 to 7.5 volts; however the tube will perform satisfactory with heater voltages ranging from 5 to 8 volts. Satisfactory operation throughout a wide range of supply voltages makes possible reliable performance under the conditions normally encountered in mobile service.

Adequate shielding and effective RF grounding are facilitated by the cathode, grid 3, and internal shield all of which are connected to 3 base pins. Isolation of output from input is further enhanced by a top-cap plate connection.

TECHNICAL SPECIFICATIONS

ELECTRICAL

Cathode	Coated Unipotential
Heater	
Voltage	6.3 volts
Current	1.25 ampere
Minimum Preheat Period	6 minutes
Amplification Factor	4.5
Interelectrode Capacitances	

Grid 1 to Plate 0.22 Max. pf  
 Grid 1 to All Except Plate 13 pf  
 Plate to All Except Grid 1 8.5 pf  
 Transconductance 7000 mhos

**MECHANICAL**

Base E.I.A. Group 1, B8-150 or B8-159  
 Cap JEDEC C1-1  
 Maximum Overall Dimensions  
 Length 4.0625 inches  
 Diameter 1.6250 inches  
 Mounting Position Any  
 Cooling Radiation and Convection  
 Maximum Bulb Temperature 260° C  
 Net Weight 2.3 ounces

Specifications may change without notice

**THIS TUBE IS USED IN THE FOLLOWING SHORTWAVE BROADCAST TRANSMITTERS**

Manufacturer	Transmitter specifications	Power in kW
Continental Electronics	417 B	50
	HF-1 M	1
	HF-20 / HF-20 B	20
Gates	HF-50 C	50
	HF-100 C	100
	HF-100	100
RCA	BHF-1A	1
	BHF-10A	10

**THIS TUBE IS AVAILABLE FROM**

Manufacturer	Rebuilder	Distributor
Penta Laboratories		Richardson Electronics Thomas J. Bruckner Vacuum Tubes, Inc.

**PRICE LEVEL (US\$)**

1	2	3	4	5	6
0 - 10	10 - 100	100 - 1000	1000 - 10,000	10,000 - 50,000	50,000 - 100,000

**2 3 4 5 6 8 BY C F ML Q RS TH YL**

For more information, contact

TDP	Tel : +32 33 14 78 00
c/o Ludo Maes	Mob : +32 477 477 800
P.O. Box 1	Fax : +32 33 14 12 12
2310 Rijkevorsel	E-mail : info@transmitter.org
BELGIUM	Web : http://www.broadcast.be

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