

TECHNICAL INFORMATION

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810

2E31

TYPE

The 2E31 is a filament type, fully-shielded pentode of subminiature construction designed for use as an RF or IF amplifier in applications requiring economy of space, weight and battery drain. 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: T-2X3Glass▲			
BASE: None (0.016'' tinned flexible leads. Length: 1.5'' min. Spacing: 0.048'' center-to-center)			
TERMINAL CONNECTIONS: (Red Dot is adjacent to Lead 1)			
Lead 1 Plate Lead 4			
	Filament,		
Lead 3 Filament, negative ; shield 🖬	positive 🔳		
MOUNTING POSITION: Any			

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (##fds.)		
Grid to Plate: (g1 to p) Input: g1 to (f+g2) Output: p to (f+g2)	0.08 4.2 4.0	max.
DESIGN CENTER MAXIMUM RATINGS:		
Filament Voltage (dc)● Plate Voltage Grid ≹2 Voltage Total Cathode Current	45 45	volts volts volts ma.
CHARACTERISTICS AND TYPICAL OPERATION - CLASS A 1 AMPLIFIER :		
Filament Voltage (dc) ● Filament Current Plate Voltage Grid #2 Voltage Grid #1 Voltage ● Plate Resistance (approx.) Transconductance Plate Current Grid #2 Current Grid #1 Voltage (approx.) for plate current = 10 µa.	50 22.5 22.5 0 0.35 500 0.4 0.3	



 \blacktriangle Bulb is entirely coated with a metallic shield connected to Lead 3.

♦ Grid resistor=5 megohms.

■ Grid #3 is composed of two deflector plates, one being connected to Lead 3 and the other to Lead 5.

• Do not use in series filament circuits. Filament voltage must never exceed 1.55 volts.

RAYTHEON MANUFACTURING COMPANY

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