

July 15, 1963

TRIODE-PENTODE CONVERTER TYPE 19EA8

The 19EA8 is a 9-Pin miniature medium-mu triode and sharp-cutoff pentode type designed for service as combined oscillator and mixer in FM receivers.

ELECTRICAL

Cathode..... Coated Unipotential
Heater:

Voltage (ac or dc) 18.9 Volts
Current 0.15 Amperes

Direct Interelectrode Capacitances:

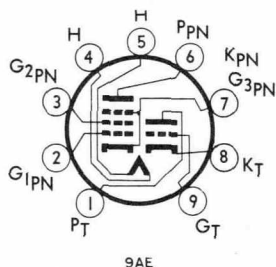
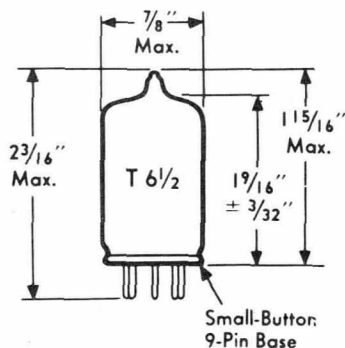
Triode Unit	Unshielded	Shielded (Note 1)
Grid to Plate.....	1.7	1.7 pf
Input.....	3.0	3.2 pf
Output.....	0.3	1.1 pf
Heater to Cathode.....	3.0	3.0 (Note 2) pf

Pentode Unit

	Unshielded	Shielded (Note 1)
Grid 1 to Plate.....	0.02 max.	0.01 max. pf
Input.....	5.0	5.0 pf
Output.....	2.6	3.4 pf
Heater to Cathode.....	3.0	3.0 (Note 2) pf

MECHANICAL

Bulb..... T-6½
Base..... Miniature 9-Pin (JEDEC E9-1)
Basing..... 9AE
Outline..... 6-2
Mounting..... Any



MAXIMUM RATINGS

Design Maximum Values

	Triode Unit	Pentode Unit	
Plate Voltage.....	330	330	max. Volts
Grid 2 (Screen) Voltage.....	See Grid 2 Input Rating Curve		
Grid 2 Supply Voltage.....	-	330	max. Volts
Grid 1 (Control Grid) Voltage			
Positive Bias Value.....	0	0	max. Volts
Plate Dissipation.....	3.0	3.1	max. Watts
Grid 2 Input.....	-	0.55	max. Watt
Heater Cathode Voltage			
Heater Positive with Respect to Cathode			
DC Component.....	100	100	max. Volts
Total DC and Peak.....	200	200	max. Volts
Heater Negative with Respect to Cathode, Total DC and Peak.....	200	200	max. Volts

CHARACTERISTICS

	Triode Unit	Pentode Unit	
Plate Voltage.....	150	125	Volts
Grid 2 Voltage.....	-	125	Volts
Grid 1 Voltage.....	-	-1.0	Volts
Cathode Bias Resistor.....	56	-	Ohms
Amplification Factor.....	40	-	-
Plate Resistance (Approx.).....	5000	80000	Ohms
Transconductance.....	8500	6400	μmhos
Grid 1 Cutoff Bias (Note 3).....	-12	-9	Volts
Plate Current.....	18	12	Ma.
Grid 2 Current.....	-	4.0	Ma.

NOTES

1. With JEDEC Shield #315 connected to Cathode of unit under test.
2. With JEDEC Shield #315 connected to ground.
3. For plate current of 10 microamperes.

NOTICE: For characteristic curves, see data sheet for types 5EA8 & 6EA8.

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Receiving Tube Section

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