



ELECTRONIC TUBE REFERENCE

8418

Specialized - Gauge Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

GAUGE

Hot-filament ionization gauge tube designed for measuring very low gas pressures below approximately 0.5 pascal.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	4.2 V / 4.2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Gauge	
MAXIMUM PLATE VOLTAGE	500 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM GRID DISSIPATION	5 W
<i>Ionisation-gauge collector/grid structure; promoted voltage/dissipation values are from measurement-mode absolute limits where semantically applicable.</i>	

Ionization gauge tube for measuring very low gas pressures below about 0.5 pascal.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Mazda

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

1960 MAZDA

Section 1 · Gauge

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Degassing filament voltage maximum	6 V	—
Degassing grid-and-collector voltage maximum	750 V	—
Degassing grid-and-collector dissipation maximum	75 W	—
Degassing grid dissipation maximum	7.5 W	—
Measurement filament voltage maximum	4.5 V	—
Measurement grid current maximum	25 mA	—
Measurement grid voltage maximum	500 V	—
Measurement grid dissipation maximum	5 W	—
Measurement filament voltage	4.2 V	—
Measurement filament current	4.2 A	—
Measurement grid voltage	250 V	—
Measurement grid current	10 mA	—
Measurement collector voltage	-30 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Argon sensitivity at stated conditions	1370 uA/Pa	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Gauge

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	3.7 V	Published nominal value
Heater or filament current	4 A	Published nominal value
Pressure measurement range	0.0001–0.5 Pa	Published useful calibration range
Ion gauge sensitivity	1370 uA/Pa	Argon; stated operating condition

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	5 W	Published limit