ELECTRONIC TUBE REFERENCE

6MX5S

Specialized - Sensor Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
SENSOR

Russian dual movable-anode mechanotron for precision displacement and force measurement. Its differential construction converts small mechanical movement into a sensitive electrical-current change.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	6.3 V / 410 mA	**PARALLEL HEATER**	_ / _
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Sensor

PLATE RESISTANCE	5000 Ω
MAXIMUM PLATE VOLTAGE	30 V
MAXIMUM CATHODE CURRENT	6 mA

Values promoted from the complete filename-matched Russian entry only.

Mechanotron with two movable anodes for precision measurement of linear displacement and force. Extracted and translated from the complete Russian entry corresponding to the PDF filename; neighboring page-break fragments were excluded.

SOURCE OPERATING CONDITIONS

SOURCE PDF

1981 Russian Tubes Katsnelson and Larionov

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

1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 1 · Sensor

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Anode current each	**3.5 mA**	Translated from Russian source; filename-matched entry only
Internal resistance	**5 kOhm**	Translated from Russian source; filename-matched entry only
Current sensitivity to displacement	**83 uA/um**	Translated from Russian source; filename-matched entry only
Temperature sensitivity maximum	**0.2 um/C**	Translated from Russian source; filename-matched entry only
Output drift maximum	**0.2 um/h**	Translated from Russian source; filename-matched entry only
Service life minimum	**1000 h**	Translated from Russian source; filename-matched entry only
Maximum plate voltage	**30 V**	Translated from Russian source; filename-matched entry only

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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