



ELECTRONIC TUBE REFERENCE

6MX4S

Specialized - Sensor Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

SENSOR

Russian dual movable-anode mechanotron for precision linear displacement and force measurement. It provides especially high current sensitivity to very small mechanical movement.

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

SECTION 1 Sensor	
PLATE RESISTANCE	2000 Ω
MAXIMUM PLATE VOLTAGE	20 V
MAXIMUM CATHODE CURRENT	13 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
Heater current	410 mA	Translated from Russian source; filename-matched entry only
Internal resistance	2 kOhm	Translated from Russian source; filename-matched entry only
Current sensitivity to displacement	210 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	20 V	Translated from Russian source; filename-matched entry only