



ELECTRONIC TUBE REFERENCE

6MX3S

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 electrode system provides high mechanical-to-electrical sensitivity.

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	500 Ω
MAXIMUM CATHODE CURRENT	80 mA
<i>Values promoted from the complete filename-matched Russian entry only.</i>	

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	23 mA	Translated from Russian source; filename-matched entry only
Internal resistance maximum	0.5 kOhm	Translated from Russian source; filename-matched entry only
Current sensitivity to displacement	100 uA/um	Translated from Russian source; filename-matched entry only
Temperature sensitivity maximum	0.05 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

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker