



ELECTRONIC TUBE REFERENCE

6MX7S

Specialized - Sensor Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
SENSOR

Russian precision mechanotron displacement and force transducer with high sensitivity, low drift, and long rated service life. Mechanical movement directly modulates electrode current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 170 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Sensor	
PLATE RESISTANCE	2000 Ω
MAXIMUM PLATE VOLTAGE	17 V
<i>Values promoted from the complete filename-matched Russian entry only.</i>	

Mechanotron for precision measurement of displacement and force in instrumentation. 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
Internal resistance	2 kOhm	Translated from Russian source; filename-matched entry only
Current sensitivity to displacement	235 uA/um	Translated from Russian source; filename-matched entry only
Output drift maximum	0.02 um/h	Translated from Russian source; filename-matched entry only
Temperature sensitivity maximum	0.05 um/C	Translated from Russian source; filename-matched entry only
Self measuring force maximum	0.25 N	Translated from Russian source; filename-matched entry only
Service life minimum	24000 h	Translated from Russian source; filename-matched entry only
Maximum plate voltage	17 V	Translated from Russian source; filename-matched entry only

TUBE TINKER

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