



ELECTRONIC TUBE REFERENCE

CH102712

Other (weirdo tubes) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

OTHER

CH1027-family Curpistor constant-current regulator for precision low-current service, providing a defined current largely independent of applied voltage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	2
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Other

No fixed ratings recorded.

*Two-electrode nitrogen-filled constant-current regulator; no dedicated canonical current-regulator
SectionType.*

Two-electrode radioactive nitrogen-filled Curpistor constant-current tube rated at 10^{-12} A with a 25-500 V current plateau.



SOURCE OPERATING CONDITIONS

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Other

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current rating	0.000000001 mA	—
Maximum current variation from center value	2 %	25-500V plateau

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plateau voltage minimum	25 V	—
Plateau voltage maximum	500 V	—
Radium-226 activity	0.01875 microcurie	—
Ambient temperature minimum	-70 degC	—
Ambient temperature maximum	80 degC	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Other

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Constant current rating	0.000000001 mA	CenterValue

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current plateau voltage minimum	25 V	CurrentPlateau
Current plateau voltage maximum	500 V	CurrentPlateau
Maximum current variation from center value	2 %	25To500VPlateau
Radioactive activity	0.01875 uCi	—
Life	Unlimited	Radium226HalfLife1620Years
Radium-226 half life	1620 years	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas fill	Nitrogen	—
Active material	Radium-226	Radioactive
Base/construction	DoubleEnded	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ambient temperature minimum	-70 degC	—
Ambient temperature maximum	80 degC	—
Mounting position	Any	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical application	Constant capacitor drain or charge	MissileAndOrdnanceTiming
Typical application	Instrument bias	—
Typical application	Ionization chamber testing	—
Typical application	Calibration standard	—