



ELECTRONIC TUBE REFERENCE

6627

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

VOLTAGEREGULATOR

High-reliability 0B2WA-family cold-cathode regulator providing approximately 108 V stabilization under severe environmental conditions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Voltage Regulator	
REGULATOR VOLTAGE	108 V
MINIMUM REGULATOR CURRENT	5 mA
MAXIMUM REGULATOR CURRENT	30 mA
STARTING VOLTAGE	130 V
MAINTAINING VOLTAGE	108 V
Cold-cathode voltage regulator/reference discharge.	

High-reliability inert-gas cold-cathode miniature voltage regulator, co-designated 0B2WA, with stable voltage over life and severe environments. Electrical ratings, characteristics, operating data, and special environmental information were extracted from the supplied source.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 · Voltage Regulator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Regulator current minimum	5 mA	—
Regulator current maximum	30 mA	—



SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Voltage Regulator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MINIMUM DC CATHODE CURRENT	5 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
MINIMUM AMBIENT TEMPERATURE	55 C	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
SHOCK IMPACT	4	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
VIBRATION FATIGUE	2.5	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
SHOCK:	30	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
IONIZATION VOLTAGE (MAX.)	130	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TUBE VOLTAGE DROP (5. & 30. MA.) – published value 1	105	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TUBE VOLTAGE DROP (5. & 30. MA.) – published value 2	111	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
REGULATION (5. TO 30. MA.) (MAX.)	2.5	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
C HAN6E	5 percent	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
VOLTAGE REPEATABILITY (MAX.)	4 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
CHANGE	3 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TUBE VOLTAGE DROP	113 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
REGULATION (MAX.)	3 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
IONIZATION VOLTAGE (MAX.)	1	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
CHANGE IN TUBE VOLTAGE DROP FROM	4 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TUBE VOLTAGE DROP	116 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TUBE	1 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TUBE – published value 1	2 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TUBE – published value 2	30 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
REGULATION	2.5 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
LEAKAGE CURRENT (Eb	5 A	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
Regulator voltage	108 V	Promoted section value from the supplied datasheet.
Regulator maintaining voltage	108 V	Promoted section value from the supplied datasheet.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM BULB TEMPERATURE	150 C	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
MAXIMUM ALTITUDE – published value 1	120 ft	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
MAXIMUM ALTITUDE – published value 2	0 ft	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
Regulator minimum current	5 mA	Promoted section value from the supplied datasheet.
Regulator maximum current	30 mA	Promoted section value from the supplied datasheet.
Regulator starting/breakdown voltage	130 V	Promoted section value from the supplied datasheet.

TUBE TINKER

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