



ELECTRONIC TUBE REFERENCE

EL6C

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

High-current directly heated full-wave xenon rectifier using tantalum anodes. Rated for approximately 725 V peak inverse voltage, 6.4 A DC output, and 25.6 A peak current with a low arc drop.

GENERAL CHARACTERISTICS

BASE DESIGNATION	A4-81	BASE PINS	4
NOMINAL HEATER	2.5 V / 17 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM CATHODE CURRENT	6.4 A
PEAK INVERSE VOLTAGE	725 V
NOMINAL OUTPUT CURRENT	6.4 A
PEAK FORWARD CURRENT	25.6 A
FORWARD VOLTAGE DROP	8 V
WARM-UP TIME	40 s
<i>Xenon rectifier section.</i>	

SECTION2 Rectifier	
MAXIMUM CATHODE CURRENT	6.4 A
PEAK INVERSE VOLTAGE	725 V
NOMINAL OUTPUT CURRENT	6.4 A
PEAK FORWARD CURRENT	25.6 A
FORWARD VOLTAGE DROP	8 V
WARM-UP TIME	40 s
<i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i>	

EL6C is a full-wave xenon rectifier tube using tantalum anodes and xenon gas filling. The datasheet publishes filament, anode-current, inverse-voltage, arc-drop and operating ratings.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1942 Electronics Inc

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

1942 ELECTRONICS INC

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-c. Meter Value - Continuous	6.4 A	—
Oscillograph Peak - Continuously Recurring	25.6 A	—
Peak Inverse Voltage	725 V	—
Filament Voltage	2.5 V	—
Filament Current	17 A	—
Heating Time Minimum	40 s	—
Maximum Anode Supply Frequency	250 Hz	—
Maximum Short Circuit Current	360 A	—
Maximum Commutation Factor	0.66 V/us x A/us	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average Arc Drop	8 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Electronics Inc

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

1958 ELECTRONICS INC

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuous DC anode current	6.4 A	—
Overload anode current	9 A	LessThan3Seconds
Continuously recurring peak anode current	25.6 A	—
Peak inverse voltage	725 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum filament heating time	40 s	—
Average arc drop, average tube	8 V	—
Average arc drop, highest/end-of-life tube	13 V	—
Filament current tolerance	2 A	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas filling	Xenon	—
Anode material	Tantalum	—

1958 ELECTRONICS INC

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuous DC anode current	6.4 A	—
Overload anode current	9 A	LessThan3Seconds
Continuously recurring peak anode current	25.6 A	—
Peak inverse voltage	725 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum filament heating time	40 s	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average arc drop, average tube	8 V	—
Average arc drop, highest/end-of-life tube	13 V	—
Filament current tolerance	2 A	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas filling	Xenon	—
Anode material	Tantalum	—

TUBE TINKER

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