



ELECTRONIC TUBE REFERENCE

4072A

Specialized - X-Ray Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

XRAY

Self-rectifying X-ray tube for direct transformer operation at 63 kV peak and 10 mA mean current, with a 1.5 mm square focal spot.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.7 V / 1.95 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 XRay	
MAXIMUM PLATE VOLTAGE	63000 V
MAXIMUM CATHODE CURRENT	12 mA
Explicit alternate designation printed on X63C1 datasheet.	

Self-rectifying X-ray tube intended for direct operation from a high-tension transformer at 63 kV peak and 10 mA mean rectified current, with external X-ray shielding required.

SOURCE OPERATING CONDITIONS

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

Section 1 · XRay

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage for 10 mA operation	2.6–3.4 V	10mA
Filament current for 10 mA operation	1.7 A–2.4 A	10mA
Filament voltage for 2–10 mA emission	2–3.4 V	2to10mA
Filament current for 2–10 mA emission	1.5 A–2.4 A	2to10mA
Normal peak voltage	63 kV	—
Normal mean rectified current	10 mA	—
Maximum no-load peak transformer voltage	75 kV	—
Maximum tube current	12 mA	—
Maximum oil temperature	60 °C	—
External X-ray protection equivalent	1 mm lead	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Effective focal spot	1.5 x 1.5 mm	—

1947 Standard Valves

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

1947 STANDARD VALVES

Section 1 · XRay

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage minimum	2 V	2-10mA Emission
Filament current minimum	1.5 A	2-10mA Emission
Effective focal spot	1.5 x 1.5 mm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage maximum	3.4 V	—
Filament current maximum	2.4 A	—
Rated peak anode voltage	63 kV	Continuous
Rated mean rectified current	10 mA	Continuous
Absolute tube current ceiling	12 mA	—
Transformer no-load peak-voltage ceiling	75 kV	Tube Removed
Maximum transformer short-circuit current	120 mA	—
Maximum oil temperature	60 C	—
Required external X-ray shielding	1 mm Pb equivalent	—

TUBE TINKER

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