



ELECTRONIC TUBE REFERENCE

3CX6000H3SPEC

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Svetlana 3CX6000H3 medium-mu ceramic-metal industrial RF power triode with directly heated 5 V 72 A thoriated-tungsten mesh filament, 6000 W plate dissipation and forced-air cooling.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 72 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	22
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM PLATE DISSIPATION	6000 W
MAXIMUM GRID DISSIPATION	400 W
Svetlana 3CX6000H3 medium-mu industrial power triode, Class C CW amplifier/oscillator. Max plate voltage 8000 V, plate dissipation 6000 W, grid dissipation 400 W, negative DC grid bias magnitude max 550 V, DC grid current max 0.45 A, max CW frequency 90 MHz. Mu 22. Cold capacitances filament grounded: input 50 pF, output 1.2 pF, feedback 30 pF. Typical 60 MHz grounded cathode: Va 8000 V, Ia 1.56 A, grid bias -400 V, grid current 290 mA, peak positive RF grid voltage 765 V, plate input 12480 W, output 9000 W, plate dissipation 3480 W, efficiency 72%. Thoriated tungsten mesh filament 5.0 ± 0.25 V 72 A; forced air cooling required, at 6000 W dissipation 445 CFM sea level or 650 CFM at 10000 ft, with 50°C ambient and envelope under 200°C.	

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