



TDP
TUBE 4CX3000A / 8169

GENERAL DESCRIPTION



The 4CX3000A is designed to be used as a Class AB₁ linear amplifier in audio or radio-frequency applications. Its characteristics of low intermodulation distortion make it especially suitable for single sideband service.

This tube is unique in that a production test is included to insure minimum distortion products. The 4CX3000A must produce a minimum of 5300 watts in Class AB₁ service with 3rd order IM distortion at least 32 dB down, from one tone of two-tone signal.

The tube is also recommended for use as a class C radio-frequency power amplifier and plate-modulated, radio-frequency power amplifier.

TECHNICAL SPECIFICATIONS

Plate Dissipation (Max.)	3500 watts
Screen Dissipation (Max.)	175 watts
Grid Dissipation (Max.)	50 watts
Frequency for Max. Ratings (CW)	150 MHz
Cooling	Forced Air
Filament	Thoriated Tungsten
Voltage	9.0 volts
Current	41.5 amperes
Capacitances (Grounded Cath. Connection)	-130.0 pF
Input	12.5 pF
Output	1.0 pF
Feed-through	
Capacitances (Grounded Grid Connection)	61.0 pF
Input	12.5 pF
Output	0.1 pF

Feed-through	
Amplification Factor (g_1-g_2)	5.5
Base	Special, Breechblock
Recommended Air-System Socket	SK-1400
Recommended Air Chimney	SK-1406
Maximum Seal & Anode Core Temperature	250°C
Maximum Length	7.90 in; 200.70 mm
Maximum Diameter	4.63 in; 117.60 mm
Weight (approximate)	5.5 lb; 2.5 kg
Operating Position	Vertical

Specifications may change without notice

THIS TUBE IS USED IN THE FOLLOWING SHORTWAVE BROADCAST TRANSMITTERS

Manufacturer	Transmitter specifications	Power in kW
Collins	821A-1	250
	821A-2	250
	417 D	50
	417 E	50
Continental Electronics	418 D-2	100
	418 E	100
	418 F	100

THIS TUBE IS AVAILABLE FROM

Manufacturer	Rebuilder	Distributor
Eimac	Econco	Richardson Electronics
Penta Laboratories	Freeland Products	Thomas J. Bruckner

PRICE LEVEL (US\$)

1	2	3	4	5	6
0 - 10	10 - 100	100 - 1000	1000 - 10,000	10,000 - 50,000	50,000 - 100,000

2 3 4 5 6 8 BY C F ML Q RS TH YL

For more information, contact

TDP	Tel : +32 33 14 78 00
c/o Ludo Maes	Mob : +32 477 477 800
P.O. Box 1	Fax : +32 33 14 12 12
2310 Rijkevorsel	E-mail : info@transmitter.org
BELGIUM	Web : http://www.broadcast.be

<u>Home Stations</u>	Airtime TDP	Antennas TDPradio	DRM Airtime Transmitters	DRM Stereo Tubes
----------------------	-------------	-------------------	--------------------------	------------------