



ELECTRONIC TUBE REFERENCE

220B

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Cossor 220B directly heated 2 V 0.2 A dual-triode Class B push-pull battery audio output tube, typically operated at 120 V with 12 k Ω plate-to-plate load.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode

No fixed ratings recorded.

Cossor 220B Class B audio output triode, physical half 1 of push-pull pair. At anode 100 V and grid 0 V static anode current per half 1.25 mA. Normal anode 120 V, maximum total anode current swing 35 mA, maximum grid-to-grid signal 40 V; at 120 V average anode current 6 mA without driver, 7.5 mA with Cossor 215P driver. Plate-to-plate load 20 k Ω at 90 V, 12 k Ω at 120 V. These are circuit and combined-pair figures, NOT per-section maximum ratings. No published max plate voltage, dissipation, gm, rp or mu. Never confuse with Western Electric 220B water-cooled single transmitting triode.

SECTION2 Triode

No fixed ratings recorded.

Cossor 220B Class B audio output triode, physical half 2 of push-pull pair. At anode 100 V and grid 0 V static anode current per half 1.25 mA. Normal anode 120 V, maximum total anode current swing 35 mA, maximum grid-to-grid signal 40 V; at 120 V average anode current 6 mA without driver, 7.5 mA with Cossor 215P driver. Plate-to-plate load 20 k Ω at 90 V, 12 k Ω at 120 V. These are circuit and combined-pair figures, NOT per-section maximum ratings. No published max plate voltage, dissipation, gm, rp or mu. Never confuse with Western Electric 220B water-cooled single transmitting triode.

Cossor 220B dualtriode for receiver/amplifier service as specified in the supplied catalogue datasheet.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1936 Cossor Valve Manual

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

1936 COSSOR VALVE MANUAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak applied signal grid-to-grid	40 V	Published datasheet value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

193X Cossor

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

193X COSSOR

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Normal anode voltage	120 V	Published datasheet value
Maximum anode current swing	35 mA	Published datasheet value
Maximum peak applied signal grid-to-grid	40 V	Published datasheet value
Anode-to-anode load at 120 V	12000 ohm	Published datasheet value

TUBE TINKER

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and their source documents.

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