



ELECTRONIC TUBE REFERENCE

220C

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled high-power transmitting triode intended for RF service. Western Electric data show very high plate-voltage and dissipation capability, making it a specialized industrial transmitter tube rather than a conventional power-output triode.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	21.5 V / 41 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	10000 W
<i>Promoted fields populated from explicitly published ratings/characteristics; service-specific data retained as parameters.</i>	

The Western Electric 220C is a triode listed in the supplied catalog table. It is a water-cooled transmitting type intended for high-power RF service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 Western Electric Tubes

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

1956 WESTERN ELECTRIC TUBES

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum/Typical Power Output	2750 W	Catalog-table value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	15000 V	Catalog-table value
Maximum Plate Dissipation	10000 W	Catalog-table value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 Machlette Laboratories

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

1971 MACHLETTE LABORATORIES

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
the ML	220	the ML-220CA is forced-air cooled and is capable of dis- exhausted by a straight-line, high-voltage process assuring the
peres apply at frequencics up to [1]	4 MHz	peres apply at frequencics up to 4 Mc; operation at 12 Mc is and super-voltage x-ray tubces,
peres apply at frequencics up to [2]	12 MHz	peres apply at frequencics up to 4 Mc; operation at 12 Mc is and super-voltage x-ray tubces,
permissible with plate voltage reduced to	5	permissible with plate voltage reduced to 5 kVde

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Current at	215 V	Filament Current at 21,5 volts e a1 amperes

TUBE TINKER

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and their source documents.

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