



ELECTRONIC TUBE REFERENCE

4J70

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Mechanically tunable high-power pulsed magnetron designed for radar and related short-pulse microwave service over its specified tuning range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	16 V / 3.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	30000 V
MAXIMUM PLATE DISSIPATION	700 W
MAXIMUM CATHODE CURRENT	70 A
<i>Published ratings and characteristics promoted where clearly applicable; additional source values retained as section parameters.</i>	

Forced-air-cooled tunable pulsed magnetron in the 4J70-4J73 family.

SOURCE OPERATING CONDITIONS

1947 Westinghouse

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

1947 WESTINGHOUSE

Section 1 · Magnetron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	16 V	Published nominal/representative value
Heater or filament current	3.1 A	Published nominal/representative value
Mechanical tuning range	3540–3710 MHz	Published
Magnetic field strength	2500 gauss	Published

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	700 W	Published
RF power output	350 W	At 0.0006 duty cycle and 70 A
Maximum duty cycle	0.001 fraction	Published
Maximum pulse duration	2.9 μ s	Published

TUBE TINKER

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