



ELECTRONIC TUBE REFERENCE

IMG915100KA

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Fixed-tuned electromagnet-focused 915 MHz industrial magnetron producing approximately 100 kW continuous-wave output with combined liquid and air cooling.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	14.5 V / 115 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	25000 V
MAXIMUM CATHODE CURRENT	7 A
Section values promoted from published characteristics and maximum ratings.	

Fixed-tuned, electromagnet-focused 100 kW CW industrial magnetron with ceramic-metal construction and combined liquid and air cooling.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

199X Svetlana

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

199X SVETLANA

Section 1 · Magnetron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
he ISTOKTM IMG-915-100KA Industrial Magnetron is a	915 MHz	SourcePage1-2
T electromagnet-focused	100000 W	SourcePage1-2
The IMG-915-100KA is one of the few	100000 W	SourcePage1-2
new design for conservative	100000 W	SourcePage1-2
provides exceptional cooling for handling	100000 W	SourcePage1-2
Nominal Current at 14.5 Volts	115 A	SourcePage1-2
Current (max)	7 A	SourcePage1-2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage	25000 V	SourcePage1-2
Anode Current	7 A	SourcePage1-2
Typical Operation	915 MHz	TypicalOperation
Filament Current	78 A	TypicalOperation
Anode Voltage	19800 V	TypicalOperation
Anode Current	6.1 A	TypicalOperation
Solenoid Current	5 A	TypicalOperation
RF Output	102000 W	TypicalOperation
Proper on off sequencing of solenoid current required 0	-20 V	TypicalOperation
Over Current Voltage Meter 0	-100 V	TypicalOperation

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Relay 0	-25000 V	TypicalOperation
Is =	5.3 A	TypicalOperation
Is =	4.8 A	TypicalOperation
Is =	4.3 A	TypicalOperation
Is =	3.8 A	TypicalOperation

TUBE TINKER

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