ELECTRONIC TUBE REFERENCE

RX120A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

Raytheon mercury half-wave rectifier for very-high-current power conversion, combining low forward drop with exceptionally high peak-current capability.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	2.5 V / 30 A	**PARALLEL HEATER**	– / –
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	300 V
NOMINAL OUTPUT CURRENT	20 mA
PEAK FORWARD CURRENT	120 A
FORWARD VOLTAGE DROP	6 V

Published rectifier maximum peak inverse voltage, peak plate current, DC output current and average tube drop reviewed.

RX120A is a Raytheon half wave—mercury rectifier with published peak-inverse-voltage, peak-current, DC-output-current and tube-drop ratings.

SOURCE OPERATING CONDITIONS

SOURCE PDF

195X Raytheon Special Purpose Tubes

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

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Filament/heater voltage	**2.5 V**	HalfWave MercuryVapor
Filament/heater current	**30 A**	HalfWave MercuryVapor
Average tube voltage drop	**6 V**	HalfWave MercuryVapor

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Peak inverse voltage	**300 V**	HalfWave MercuryVapor
Peak plate current per plate	**120000 mA**	HalfWave MercuryVapor
DC output current	**20 mA**	HalfWave MercuryVapor