ELECTRONIC TUBE REFERENCE

120

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

Machlett directly heated high-vacuum industrial rectifier for extremely high-voltage supplies, providing approximately 140 kV peak inverse-voltage capability for demanding professional rectification.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	13 V / 12.5 A	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Rectifier

PEAK INVERSE VOLTAGE	140000 V
PEAK FORWARD CURRENT	200 mA

Promoted fields populated from explicitly published ratings/characteristics; service-specific data retained as parameters.

High-voltage industrial high-vacuum rectifier for power-supply and industrial rectification service.

SOURCE OPERATING CONDITIONS

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 · Rectifier

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
High-Voltage Industrial Rectifier Tubes, ML [1]	**103**	High-Voltage Industrial Rectifier Tubes, ML-103, ML-108, depending upon the tube type. Design and process features
High-Voltage Industrial Rectifier Tubes, ML [2]	**108**	High-Voltage Industrial Rectifier Tubes, ML-103, ML-108, depending upon the tube type. Design and process features
withstanding peak inverse voltages of [1]	**125 kV**	withstanding peak inverse voltages of 125 to 200 kilovolts and load current ratings suitable for a variety of applications,
withstanding peak inverse voltages of [2]	**200 kV**	withstanding peak inverse voltages of 125 to 200 kilovolts and load current ratings suitable for a variety of applications,
and delivering [1]	**78 A**	and delivering 78 to 200 milliamperes of peak anode current, are listed below with their characteristics and ratings.
and delivering [2]	**200 A**	and delivering 78 to 200 milliamperes of peak anode current, are listed below with their characteristics and ratings.
within the peak tube current rating depends upon the current When the ML	**180**	within the peak tube current rating depends upon the current When the ML-180 is installed in an oil-filled container
impedance, i.c., whether it is resistive, inductive, or capaci- in the order of	**200**	impedance, i.c., whether it is resistive, inductive, or capaci- in the order of 200 PKV, the anode end should be fitted
in terms of average current delivered to the load. These load has been found	**1**	in terms of average current delivered to the load. These load has been found 1o give proper results for operation under

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker