

Filed 3/15/68.



THE MACHLETT LABORATORIES, INCORPORATED

A S U B S I D I A R Y O F R A Y T H E O N C O M P A N Y

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March 1968

Notice

We enclose a new Index for the Machlett Electron Tube Catalog, together with revised and new data. New data is indicated by an "N" in the index margin; revisions, indicated by an "R" in the margin, are described below.

ML-5575/100: Issued 6-67 Mounting socket part number now specified. New outline drawing per EIA format.

ML-5682: Issued 6-67 Water cooling characteristics chart revised.

ML-6696, ML-6697: Issued 9-67 Deleted ML-6696A and ML-6697A which now are described in separate data sheet. Deleted pulse modulator ratings and curves which now are given in new data sheet for types ML-8772 and ML-8773.

ML-8533: Issued 7-67 Transconductance raised. New constant grid voltage characteristics and constant current characteristics curves. Added millimeter dimensions to outline. Characteristic Range Values for Equipment Design added.

ML-8538, ML-8539: Issued 3-67 Transconductance raised. Interelectrode capacitances changed. New constant grid voltage characteristics and constant current characteristics curves. Outline drawing revised and millimeter dimensions added. Characteristic Range Values for Equipment Design added.



X-RAY TUBES, IMAGE AMPLIFIER TUBES • LARGE POWER TUBES • SMALL POWER TUBES • LIGHT AMPLIFIER TUBES

Filed 11/7/67



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ML-7211/ML-7698: Issued 7-66 Combined two sheets. Both tubes now rated for CW and rf pulsed operation. DC plate voltage rating increased to 2500 volts. Pulse modulator ratings added.

ML-7815/3CPN10A5, ML-7815R: Issued 3-67 Combined two sheets. CW and pulse modulator ratings added. DC plate voltage increased to 2500 volts.

ML-8534,ML-8535: Issued 3-66 Pulse modulator ratings added. Plate dissipation of ML-8535 increased to 150 watts for CW operation. DC plate current is increased to 250 mA for CW operation. Filament voltage corrected. Characteristic range values added. Tolerances and millimeter dimensions added to outline.

ML-8536,ML-8537: Issued 3-66 Pulse modulator ratings added. Plate dissipation of ML-8537 increased to 150 watts for CW operation. DC plate current is increased to 150 mA for CW operation. Characteristic range values added. Tolerances and millimeter dimensions added to outline.





ELECTRON TUBE SPECIALIST

Electron Tube Catalog

The Machlett Laboratories, Inc., Springdale, Conn.

January 1966

TO: Holders of Machlett Electron Tube Catalogs

Enclosed you will find new and/or revised Electron Tube Data Sheets. Please remove existing sheets and insert the enclosures where applicable.

You will also see that the Index has been modified somewhat ... therefore, to facilitate easy handling, please change your catalog to correspond to the new Index. Sub-Title Separators are available on request.

An outline of the various changes is also enclosed.

THE MACHLETT LABORATORIES, INC.



ELECTRON TUBE SPECIALIST

January, 1966

The following data sheets have been revised and re-issued.

Data Sheet Revision

ML-6908, 6-65

Peak Anode Voltage Note added. Outline revised.

ML-7482, 9-65

AF Power Amplifier ... DC Plate Voltage changed to 20000V.

RF Power Amplifier ... DC Plate Current changed to 35 amps.

Maximum Frequency Ratings for Frequency and Percent Maximum Rated Plate Voltage and Input added.

Outline Drawing ... Changes and/or additions have been made for Dimensions D, E, H, X, Z, and Notes 3 and 4.

Constant Grid-Currents have been changed for the 5, 2, 1, .5, 0, -2, -5A Curves.

ML-8548, 7-65

Significant revisions include:

Filament Current changed from 350 a to 360 a.
Anode Dissipation changed from 20 kw to 30 kw.
Regular Oil Flow changed from 20 gpm to 40 gpm.
Strapped Resonant Frequency added: g-p 45 mc
g-k 35 mc.

Interelectrode Capacitance changed from

30 pf g-p to 25 pf
200 pf g-k to 175 pf
50 pf p-k to 20 pf.

Also revised are: Cut-Off Characteristics, Constant Grid Characteristics and Tube Outline.



ELECTRON TUBE SPECIALIST

Data Sheet Revision

ML-7855, 6-65

Under General Characteristics, Transconductance added -- 25,000 umhos; Interelectrode Capacitance, grid-cathode, changed to 6.3 pf.

RF Power Amplifier and Oscillator, Class C Telegraphy, DC Plate Voltage changed to 2500 V; DC Grid Current changed to 45 mA; and Typical Operation has been added.

Ratings have been added for Plate-Pulsed RF Oscillator and Amplifier, Class C; and Grid-Pulsed RF Oscillator and Amplifier, Class C.

Constant Current Characteristics and Constant Grid-Voltage Characteristics have been added.

ML-8403, 6-65

Under General Characteristics, Filament Voltage changed to 6.3V; Transconductance added, 30000 umhos; and Interelectrode Capacitance, Grid-Plate changed to 3.1 pf.

RF Power Amplifier and Oscillator, Class C Telegraphy; DC Plate Voltage changed to 2500 V and Typical Operation added.

Plate-Pulsed RF Oscillator and Amplifier, Class C; Average Plate Current changed to 16 mA.

Grid-Pulsed RF Oscillator and Amplifier, Class C; DC Plate Voltage changed to 2500 V and Average Plate Current changed to 16 mA.

Constant Current Characteristics and Constant Grid-Voltage Characteristics Curves have been added for the Lower Plate Voltage & Current Ranges.

Application Notes
UHF Tubes-General

Forced-Air Cooling Characteristic Charts modified, and Water-Cooling Characteristic Chart added.



ELECTRON TUBE SPECIALIST

The following sheets are new and should be inserted in your catalog.

	<u>Comments</u>
Accessories for ML-889RA, ML-891R, ML-892R, ML-5604, ML-5606, ML-5619, ML-5666, ML-5667, ML-5668, ML-5669	This replaces the data sheet on the ML-5619; and Accessories for ML-5619, ML-5666, ML-5668
9-65	

Accessories for
ML-5530, ML-5530H, ML-5531,
ML-5541, ML-6544, ML-7002,
ML-7003, ML-7715

4-65

Accessories for
ML-7482, ML-7560, ML-8317,
ML-8547

4-65

Accessories for
ML-7845

4-65

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ML-7289/3CX100A5	6-65	This sheet is a combination of two previous data sheets - ML-7289 and ML-3CX100A5.
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The following sheets have been revised but not included with this mailing. These sheets are available on request.

ML-142	6-65	X-Radiation Note added.
ML-5576/200	6-65	Format change.
ML-322	6-65	Format change.

The following data sheets have been combined with others and should be deleted from your catalog.

Accessories for ML-5619, ML-5666, ML-5668	10-60
ML-3CX100A5	7-60
ML-7289	12-60