ELECTRONIC TUBE REFERENCE

YL1103

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

Conduction-cooled UHF beam-power tube for professional RF and television amplification, rated to approximately 1.2 GHz with useful Class-C and linear output.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	6.3 V / 2.1 A	**PARALLEL HEATER**	– / –
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.016 S
AMPLIFICATION FACTOR	18
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	115 W
MAXIMUM SCREEN DISSIPATION	4.5 W
UHF beam-power tetrode section.	

The Mullard YL1103 is a conduction-cooled UHF beam-power tetrode in the YL1100 family for RF power, oscillator and frequency-multiplier service.

SOURCE OPERATING CONDITIONS

1963 Mullard

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

1963 MULLARD

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Operating Frequency	**1200 MHz**	—
Maximum Plate Voltage	**1000 V**	ClassC
Maximum Plate Dissipation	**115 W**	—
RF Load Power	**80 W**	ClassC; 400MHz
RF Load Power	**40 W**	ClassC; 1200MHz
Television Linear Amplifier Load Power	**13 W**	ClassAB1; 790MHz

Tube Tinker

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

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