



ELECTRONIC TUBE REFERENCE

16KA6

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Compactron beam-power pentode for high-efficiency television horizontal-deflection service, with high transconductance, 18 W plate dissipation, and very high peak cathode-current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	12
NOMINAL HEATER	15.8 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	11000 Ω
TRANSCONDUCTANCE	0.0091 S
AMPLIFICATION FACTOR	4.7
MAXIMUM SCREEN VOLTAGE	220 V
MAXIMUM PLATE DISSIPATION	18 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	230 mA
<i>MaxCathodeCurrent uses published 800 mA peak value; DC cathode-current maximum is retained separately.</i>	

The 16KA6 is a Compactron beam-power pentode for television horizontal-deflection service. Its sheet publishes 18 W plate dissipation, 3.5 W screen dissipation, 770 V DC plate supply, pulse ratings, and small-signal values including about 9,100 μmhos transconductance.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak positive plate pulse	6500 V	HorizontalDeflection
Peak negative plate pulse	1500 V	HorizontalDeflection
Positive grid No. 3 voltage	70 V	HorizontalDeflection
Negative grid No. 1 voltage	55 V	HorizontalDeflection
Peak negative grid No. 1 voltage	330 V	HorizontalDeflection
DC cathode current	230 mA	HorizontalDeflection
Peak cathode current	800 mA	HorizontalDeflection
Grid No. 1 circuit resistance	1 Mohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 to plate capacitance	0.6 pF	—
Input capacitance	23 pF	—
Output capacitance	8.5 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	130 V	RepresentativeSmallSignalPoint
Grid No. 2 voltage	130 V	RepresentativeSmallSignalPoint
Grid No. 1 voltage	-20 V	RepresentativeSmallSignalPoint
Plate current	50 mA	RepresentativeSmallSignalPoint
Grid No. 2 current	1.75 mA	RepresentativeSmallSignalPoint

TUBE TINKER

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