



ELECTRONIC TUBE REFERENCE

EL509S

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

High-power output beam pentode explicitly designed for beam-power output service in demanding amplifier applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
MAXIMUM PLATE VOLTAGE	700 V
MAXIMUM SCREEN VOLTAGE	700 V
MAXIMUM SCREEN DISSIPATION	9 W
MAXIMUM CATHODE CURRENT	500 mA
MAXIMUM HEATER-CATHODE VOLTAGE	150 V
<i>Promoted from published typical characteristics and limiting values in EL509S.pdf; repeated identical physical sections are compressed where applicable.</i>	

The source identifies this device as EL509S output power beam pentode. It also specifies beam-power output service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U _f	6.3 V	Published value
I _f	2 A	Published value
U _a	700 V	Published value
U _{g2}	700 V	Published value
W _{g2}	9 W	Published value
I _k	500 mA	Published value
U _{kf}	150 V	Published value
W _{a+g2}	42 W	Published value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U _a	160 V	Published value
U _{g2}	160 V	Published value
U _{g1}	-30 V	Published value
I _a	200 mA	Published value
I _{g2}	10 mA	Published value
U _{sat}	30 V	Published value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ca/g1	3 pF	Published value

TUBE TINKER

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