



BR1115

R.F. POWER TRIODE

GENERAL

The BR1115 is a forced-air cooled triode designed primarily for industrial service. It is a maintenance type and therefore only abridged data are given on this sheet. **Full information is available on request.**

Filament	thoriated tungsten
Filament voltage	15 V
Filament current	39 A
Peak usable cathode current	14 A
Perveance	2.0 mA/V ^{3/2}
Amplification factor ($V_a = 4.0\text{kV}$, $I_a = 1.0\text{A}$)	30
Mutual conductance ($V_a = 4.0\text{kV}$, $I_a = 1.0\text{A}$)	20 mA/V
Grid connector	MA66A

R.F. POWER AMPLIFIER OR OSCILLATOR (Class C unmodulated conditions, one valve)

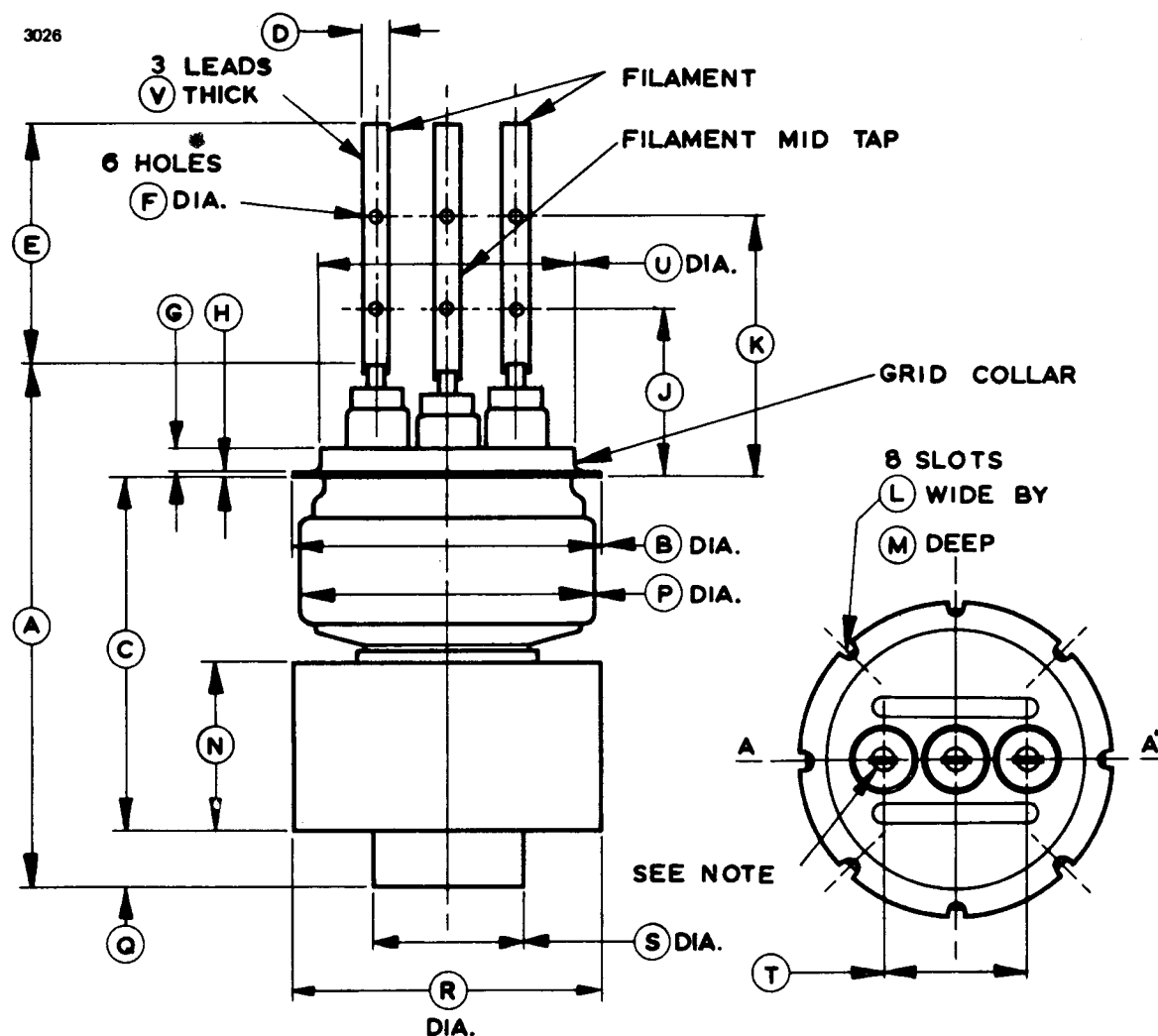
MAXIMUM RATINGS (Absolute values)

Anode voltage	6.0 kV max
Anode current	1.75 A max
Anode dissipation	3.0 kW max
Grid voltage	-1.0 kV max
Grid current	0.35 A max

TYPICAL OPERATING CONDITIONS

Anode voltage	4.0	6.0	kV
Grid voltage	-300	-400	V
Grid resistor	880	1150	Ω
Peak r.f. grid drive voltage	550	660	V
Anode current	1.54	1.64	A
Grid current (approx)	0.342	0.347	A
Anode dissipation	2.22	2.7	kW
Grid dissipation	85	90	W
Driving power	188	229	W
Output power	3.94	7.15	kW
Efficiency	64	72	%
Load resistance	1065	1150	Ω

OUTLINE



Ref	Millimetres	Inches	Ref	Millimetres	Inches
A	200.0 max	7.874 max	L	4.62 ± 0.1	0.182 ± 0.004
B	116.0 ± 0.5	4.567 ± 0.020	M	5.2 ± 0.2	0.205 ± 0.008
C	133.5 ± 3.0	5.256 ± 0.118	N	70.0 max	2.756 max
D	8.0 ± 0.5	0.315 ± 0.020	P	116.0 max	4.567 max
E	89.0 ± 2.0	3.504 ± 0.079	Q	24.0 max	0.945 max
F	3.6 ± 0.1	0.142 ± 0.004	R	117.5 ± 1.5	4.626 ± 0.059
G	9.5	0.375	S	57.5 max	2.264 max
H	1.5 ± 0.2	0.059 ± 0.008	T	54.0 ± 2.5	2.126 ± 0.098
J	65.0 ± 8.0	2.559 ± 0.315	U	100.0 max	3.937 max
K	100.0 ± 8.0	3.937 ± 0.315	V	4 x 0.25	4 x 0.010

Inch dimensions have been derived from millimetres.

Note The plane of the filament leads will be parallel to plane A-A' to within 3½°.