DISC SEAL TRIODE

TD04-20

Application: *R.F. amplifier or oscillator.*
Power output: *13.5W at f = 1.0Gc/s.*
Construction: *Disc seal, natural cooling.*

This data should be read in conjunction with GENERAL OPERATIONAL RECOMMENDATIONS – TRANSMITTING VALVES included in this volume of the handbook.

CATHODE

Indirectly heated

V_h	6.3	V
I_h	1.0	A

MOUNTING POSITION

Any

CAPACITANCES

c_{a-g}	2.3	pF
c_{a-k}	50	mpF
c_{g-k}	5.0	pF

CHARACTERISTICS

V_a	400	V
I_a	50	mA
g_m	10	mA/V
μ	28	

LIMITING VALUES

V_a max.	400	V
p_a max.	20	W
I_k max.	150	mA
$i_{k(pk)}$ max.	600	mA
p_g max.	1.0	W
$T_{anode\ seal}$ max.	140	°C

In order to limit the anode seal temperature and also to limit the rate of change of temperature it is necessary that the mass of metal in close thermal contact with the anode disc should not be less than 120g (approx. 4 oz) of brass or its thermal equivalent.

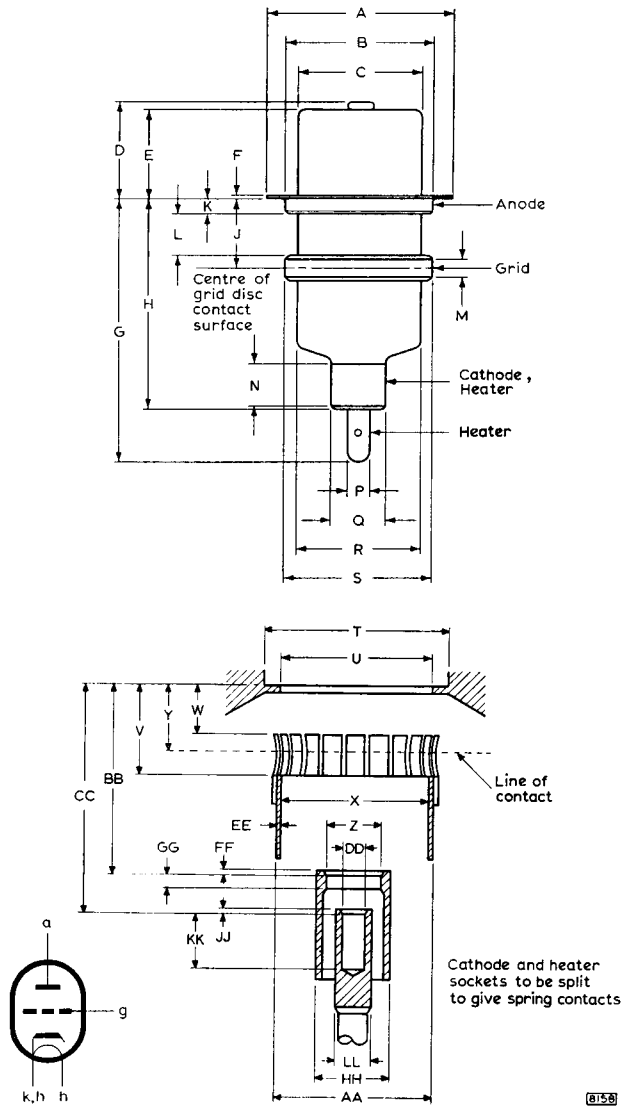
TD04-20

DISC SEAL TRIODE

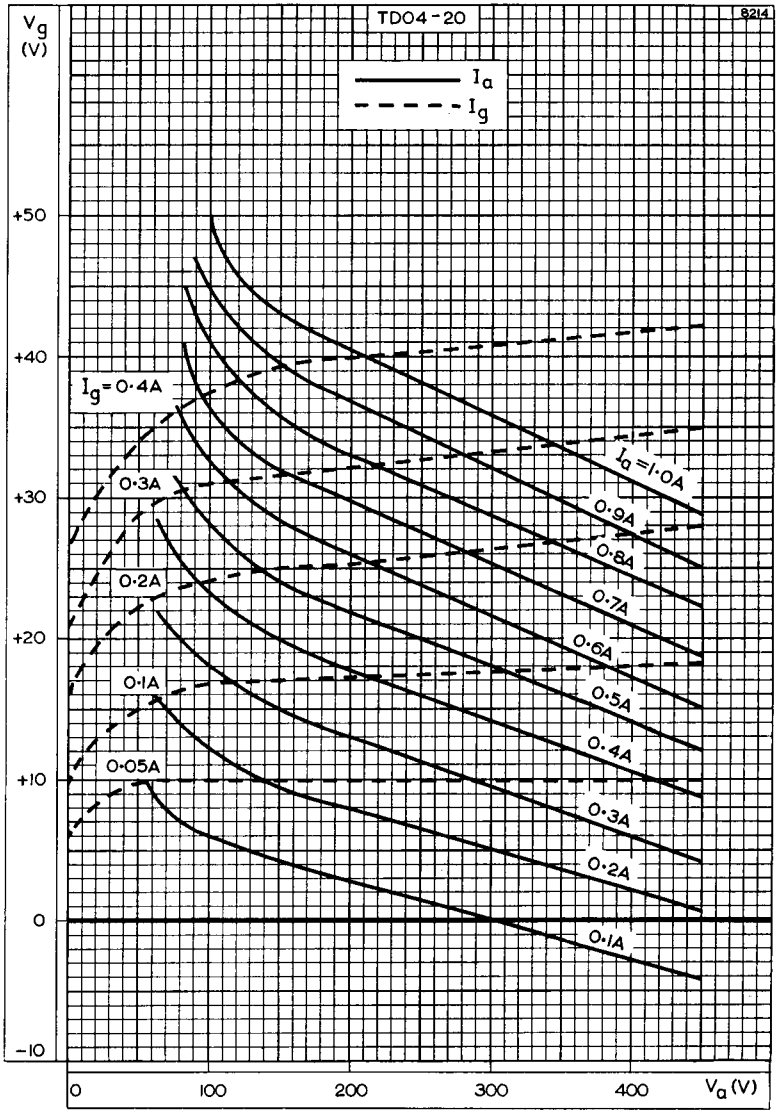
DIMENSIONS

	Inches	*Millimetres*	
A	1.252±0.020	31.8±0.5	
B	1.000±0.010	25.4±0.25	
C	*	*	
D	1.000	25.4	max.
E	0.902	22.9	max.
F	0.012±0.002	0.3±0.05	
G	1.772±0.059	45.0±1.5	
H	1.417±0.039	36±1	
J	0.465±0.030	11.8±0.75	
K	0.106	2.7	
L	0.280±0.020	7.1±0.5	
M	0.098	2.5	min.
N	0.299±0.059	7.6±1.5	
P	0.156±0.004	3.96±0.1	
Q	0.375 +0.015 −0.000	9.53 +0.38 −0.00	
R	*	*	
S	1.000±0.010	25.4±0.25	
T	1.275	32.39	min.
U	1.063±0.005	27.00±0.13	
V	0.630±0.010	16.00±0.25	
W	0.354±0.010	8.99±0.25	
X	1.000	25.40	
Y	0.453±0.010	11.51±0.25	
Z	0.375	9.53	
AA	1.063	27.00	
BB	1.260±0.010	32.00±0.25	
CC	1.535±0.010	38.99±0.25	
DD	0.156	3.96	
EE	0.031	0.79	
FF	0.031	0.79	
GG	0.094	2.39	
HH	0.500	12.70	
JJ	0.031	0.79	
KK	0.406	10.31	min.
LL	0.250	6.35	

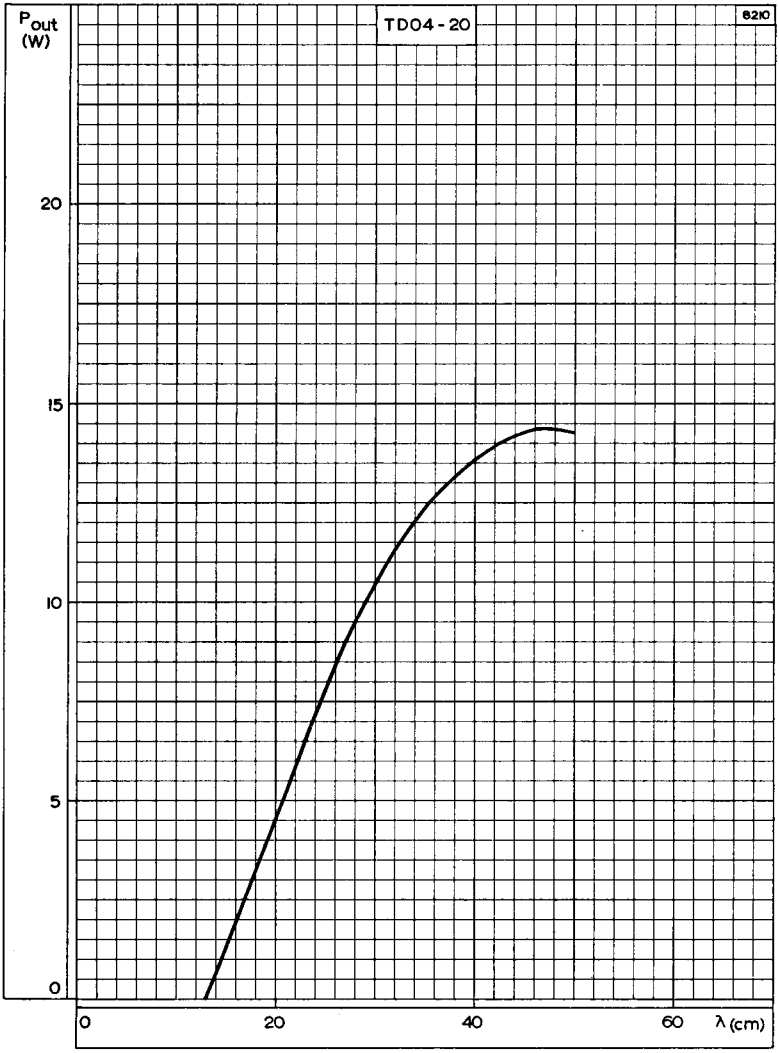
*To fit inside a cylinder 24.13mm (0.950 in) diameter, co-axial with the anode disc.


A
B
C
D
E
F
K
L
J
Anode
Grid
Centre of grid disc contact surface
H
G
M
N
Cathode, Heater
Heater
o
P
Q
R
S
T
U
V
Y
W
BB
CC
Line of contact
X
EE
Z
GG
FF
DD
KK
JJ
a
g
k,h
h
Cathode and heater sockets to be split to give spring contacts
LL
HH
AA
8158

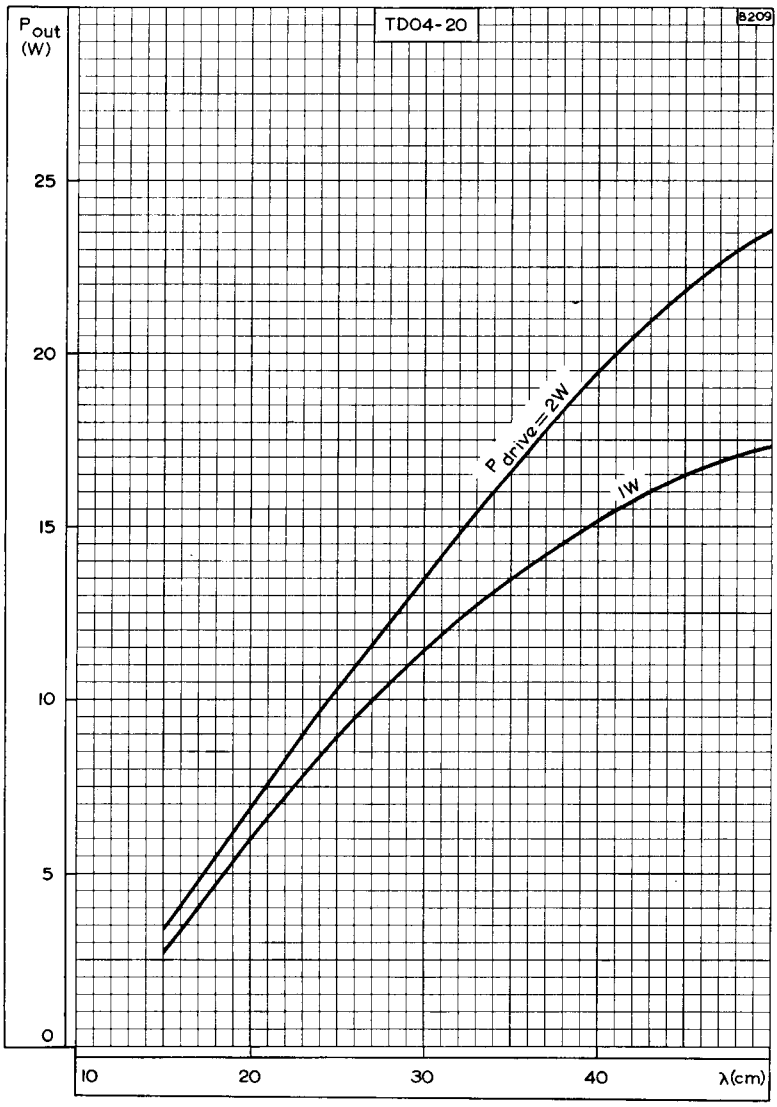
TD04-20



CONSTANT CURRENT CURVES



OUTPUT POWER PLOTTED AGAINST WAVELENGTH AS A COMMON GRID OSCILLATOR



OUTPUT POWER PLOTTED AGAINST WAVELENGTH AS A COMMON GRID AMPLIFIER