

SPECIAL QUALITY TRIODE

E288CC

Special quality double triode with separate cathodes, for use as a cascode amplifier and in pulse circuits, where stability of characteristics and long life are required.

PRELIMINARY DATA

This data should be read in conjunction with GENERAL NOTES—SPECIAL QUALITY VALVES which precede this section of the handbook, and the index numbers are used to indicate where reference should be made to a specific note.

HEATER

Suitable for parallel operation, a.c. or d.c.

V_{h1}	6.3	V
I_h	475	mA

CAPACITANCES² (measured without external shield)

* C_{a-g}	1.8	pF
$C_{a'-k'+h+s}$	1.9	pF
$C_{a''-k''+h+s}$	1.8	pF
* $C_{g-k+h+s}$	4.7	pF
$C_{a'-g'+h+s}$	3.5	pF
$C_{a''-g''+h+s}$	3.4	pF
* C_{a-k}	250	mpF
* $C_{k-g+h+s}$	7.8	pF
$C_{a'-a''}$	< 50	mpF
$C_{g'-g''}$	< 5.0	mpF

*each section.

CHARACTERISTICS³ (each section)

V_a	60	90	V
I_a	15	30	mA
V_g	-1.2	-1.5	V
g_m	14	18	mA/V
μ	25	25	
r_a	1.85	1.4	k Ω

OPERATING CONDITIONS AS R.F. AMPLIFIER (each section)

V_{a-e}	60	100	V
V_{g-e}	0	+9.0	V
R_k	80	350	Ω
I_a	15	30	mA
g_m	14	18	mA/V
R_{eq} (r.f.)	—	200	Ω
N.F. ($f = 200\text{Mc/s}$)	5.0	5.7	dB

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CHARACTERISTIC RANGE VALUES FOR EQUIPMENT DESIGN

	Average 30	Initial range 28 to 32	mA
Anode current			
$V_{a-e} = 100V$, $V_{g-e} = +9V$			
$R_k = 350\Omega$			
Mutual conductance	18	15 to 21.5	mA/V
$V_{a-e} = 100V$, $V_{g-e} = +9V$			
$R_k = 350\Omega$			
Negative grid current	—	< 0.3	μA
$V_{a-e} = 100V$, $V_{g-e} = +9V$			
$R_k = 350\Omega$			

SHOCK AND VIBRATION

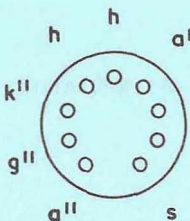
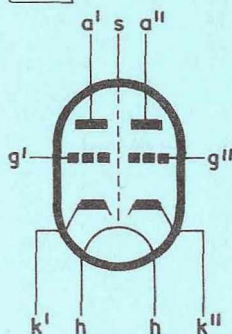
The E288CC can withstand vibrations of 2.5g and 50c/s for 96 hours, and is proof against impact accelerations of approximately 500g.

ABSOLUTE MAXIMUM RATINGS⁴ (each section)

$V_{a(b)}$ max.	450	V
V_a max.	250	V
P_a max.	3.0	W
I_k max.	40	mA
$i_{k(pk)}$ max.	400	mA
$-V_g$ max.	50	V
$-v_{g(pk)}$ max.	150	V
R_{g-k} max.	500	k Ω
V_{h-k} max.	150	V
T_{bulb} max.	190	$^{\circ}C$
V_h max.	6.6	V
V_h min.	6.0	V

*Maximum duty factor 0.01, maximum pulse duration 10 μs .

BI606



B9A Base

