

R.F. double triode primarily intended  
for use in battery-operated  
portable transmitters.

## FILAMENT

This valve is suitable for d.c. operation only.

*Series.*  $V_f$  applied across two sections in series between pins 1 and 7.  $V_g$  referred to pin 1.

*Parallel.*  $V_f$  applied across the two filament sections in parallel between pin 4 and pins 1 and 7 connected together.  
 $V_g$  referred to pins 1 and 7 connected together.

	<i>Series</i>	<i>Parallel</i>	
$V_f$	2.8	1.4	V
$I_f$	0.11	0.22	A

For series filament operation a shunting resistor must be connected across one filament section, between pins 1 and 4 to by-pass the excess cathode current in this section. The value of the resistor should be such that the voltage across the shunted section equals that across the other section.

## MOUNTING POSITION

Any

## CAPACITANCES (measured without external shield)

$C_{a'-a''}$	0.32	$\mu\mu F$
$C_{g-f}$ (each section)	0.9	$\mu\mu F$
$C_{a-f}$ (each section)	1.0	$\mu\mu F$
$C_{a-g}$ (each section)	3.2	$\mu\mu F$

## CHARACTERISTICS (each section)

$V_a$	90	V
$V_g$	-2.5	V
$I_a$	3.7	mA
$\mu$	15	
$r_a$	8.3	k $\Omega$
$g_m$	1.8	mA/V

# DCC90

## MINIATURE DOUBLE TRIODE

*R.F. double triode primarily intended for use in battery-operated portable transmitters.*

### OPERATING CONDITIONS AS PUSH PULL R.F. AMPLIFIER OR OSCILLATOR AT 40 Mc/s. (Intermittent operation)

$V_a$	135	V
$*V_g$	-20	V
$R_g$	4	k $\Omega$
$R_k$	570	$\Omega$
$V_{in(pk)}$	$2 \times 45$	V
$I_a$	$2 \times 15$	mA
$I_g$ (approx.)	$2 \times 2.5$	mA
$p_g$ (approx.)	0.2	W
$P_{out}$ (approx.)	2	W

\* Obtained from fixed supply, or by means of cathode or grid resistor of valve shown.

### LIMITING VALUES (Intermittent operation)

$V_a$ max.	135	V
$V_g$ max.	-30	V
$I_a$ max.	$2 \times 15$	mA
$I_g$ max.	$2 \times 2.5$	mA
$P_a$ max.	$2 \times 1$	W

For continuous operation the above maximum current and power ratings must be reduced by 50%.

