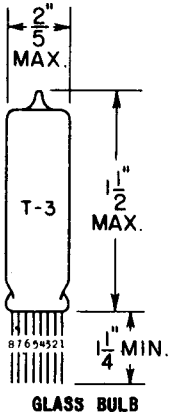
TUNG-SOL

DOUBLE TRIODE

SUBMINIATURE TYPE

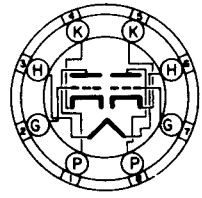


GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.3 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
SUBMINIATURE BUTTON
8 FLEXIBLE LEADS
8DG

THE 6BF7 IS A GENERAL PURPOSE TRIODE IN THE SUBMINIATURE CONSTRUCTION. IT IS SIMILAR IN FUNCTION TO TYPE 6J6, BUT PROVIDES ADDED FLEXIBILITY FROM THE USE OF SEPARATE CATHODE LEADS AND THE COMPACTNESS OF THE SUBMINIATURE CONSTRUCTION.

DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD[A]	WITHOUT SHIELD	
GRID TO PLATE (EACH SECTION)	1.5	1.5	μμf
INPUT (EACH SECTION)	2.0	2.0	μμf
OUTPUT:			
SECTION 1	1.6	0.28	μμf
SECTION 2	2.0	0.3	μμf
GRID TO GRID	0.008	0.009	μμf
PLATE TO PLATE	0.55	0.75	μμf

[A] EXTERNAL SHIELD OF 0.405 INCH DIAMETER CONNECTED TO CATHODE.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-210

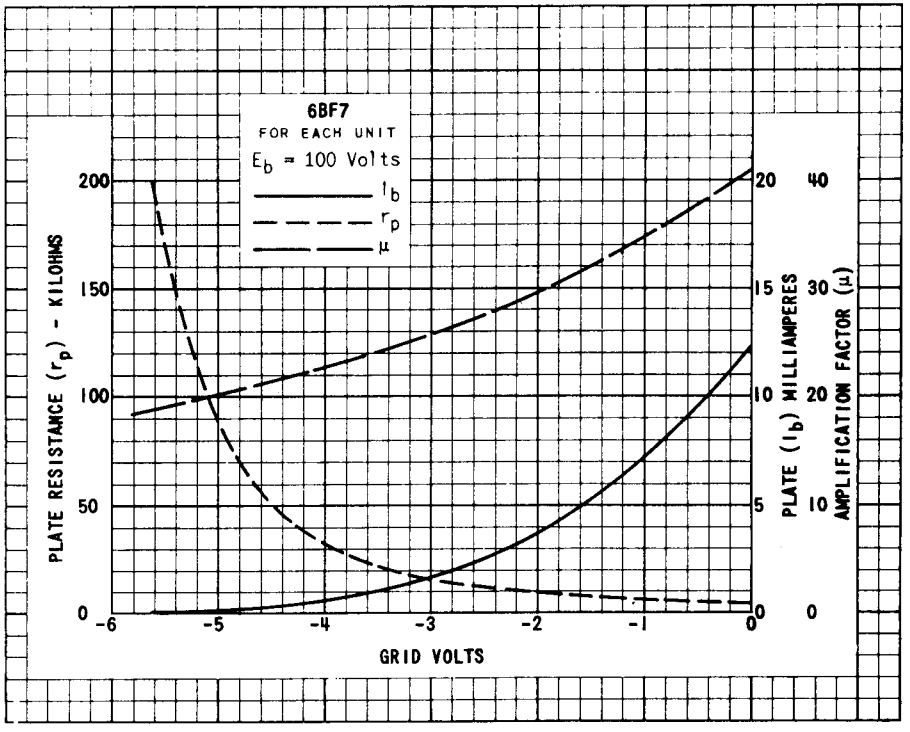
DESIGN CENTER VALUES

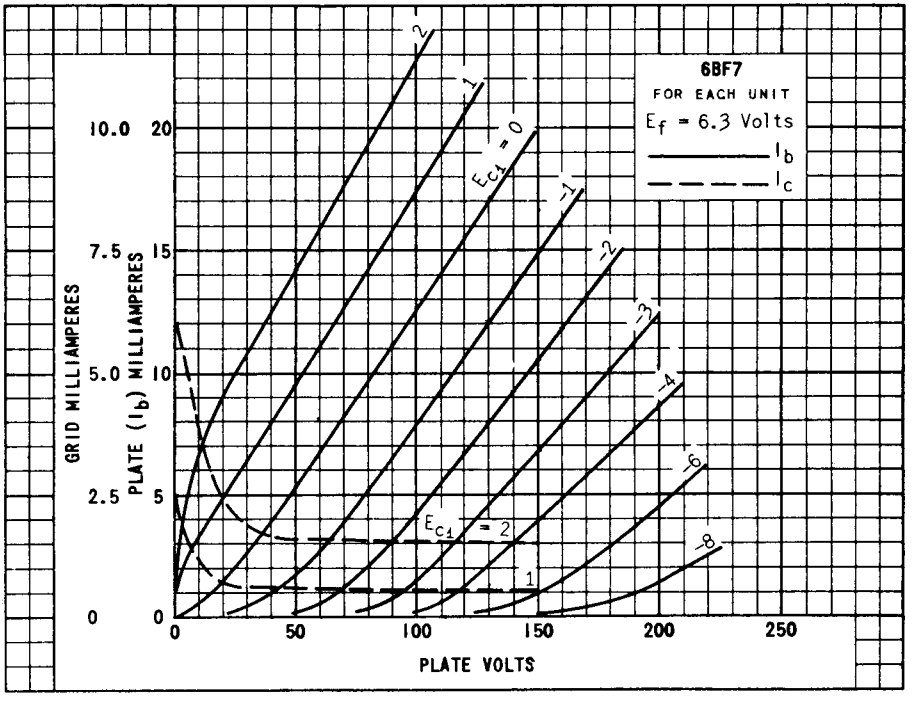
HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	110	VOLTS
MAXIMUM PLATE DISSIPATION (EACH SECTION)	1.0	WATT

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

EACH SECTION

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.3	AMP.
CATHODE BIAS RESISTOR	100	OHMS
PLATE CURRENT	8.0	MA.
AMPLIFICATION FACTOR	35	
TRANSCONDUCTANCE	4 800	μMHOS
PLATE RESISTANCE	7 000	OHMS
GRID VOLTAGE FOR 10 μAMP. PLATE CURRENT	-7.5	VOLTS


6BF7
FOR EACH UNIT
E_b = 100 Volts
I_b
r_p
μ
PLATE RESISTANCE (r_p) - KILOHMS
PLATE (I_b) MILLIAMPERES
AMPLIFICATION FACTOR (μ)
GRID VOLTS
200
150
100
50
0
20
15
10
5
0
40
30
20
10
0
-6
-5
-4
-3
-2
-1
0


6BF7
FOR EACH UNIT
E_f = 6.3 Volts
I_b
I_c
GRID MILLIAMPERES
PLATE (I_b) MILLIAMPERES
PLATE VOLTS
E_{c1} = 0
-1
-2
-3
-4
-6
-8
E_{c1} = 2
1
10.0
7.5
5.0
2.5
0
20
15
10
5
0
0
50
100
150
200
250