THE IT4 IS A MINIATURE SUPER-CONTROL RF PENTODE. IT IS RECOMMENDED FOR USE IN COMPACT, LIGHT-WEIGHT, PORTABLE RECEIVERS WHERE AVC IS REQUIRED. THE IT4 FEATURES ADEQUATE INTERNAL SHIELDING FOR MOST PURPOSES, BUT EXTERNAL SHIELDING IS RECOMMENDED WHERE MINIMUM GRID-PLATE CAPACITANCE IS TO BE OBTAINED.

DIRECT INTERELECTRODE CAPACITANCES
WITH OR WITHOUT EXTERNAL SHIELD #376 CONNECTED TO PIN #1

GRID TO PLATE: (G2 TO P) MAX. 0.01 pf
INPUT: G2 TO (F&G3+G2) 3.6 pf
OUTPUT: P TO (F&G3+G2) 7.5 pf

RATINGS
INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

MAXIMUM PLATE VOLTAGE 90 VOLTS
MAXIMUM GRID #2 VOLTAGE → 90 VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE 0 Volts
MAXIMUM CATHODE CURRENT 5.5 MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A1 AMPLIFIER

| PLATE VOLTAGE | 45 | 67.5 | 90 | 90 | VOLTS |
| GRID #2 VOLTAGE | 45 | 67.5 | 45 | 67.5 | VOLTS |
| GRID #1 VOLTAGE | 0 | 0 | 0 | 0 | VOLTS |
| PLATE RESISTANCE (APPROX.) | 0.35 | 0.25 | 0.8 | 0.5 | MEGOHM |
| TRANSCONDUCTANCE | 700 | 875 | 750 | 900 | MHO |
| PLATE CURRENT | 1.7 | 3.4 | 1.8 | 3.5 | MA. |
| GRID #2 CURRENT | 0.7 | 1.5 | 0.65 | 1.4 | MA. |
| GRID #1 VOLTAGE FOR $g_m = 10$ MHO |

INDICATES A CHANGE
PENTODE CONNECTION

$E_f = 1.4$ Volts DC
$E_b = 90$ Volts
$I_{c2} = 67.5$ Volts

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TRANSCONDUCTANCE ($g_m$) - MICROMOS

PLATE (I_b) OR SCREEN (I_{c2}) MILLIAMPERES

CONTROL GRID VOLTS