



1T4

Description and Rating

PENTODE

The 1T4 is a miniature remote-cutoff pentode designed for use as a radio-frequency or intermediate-frequency amplifier in compact, battery-operated equipment. Its remote-cutoff characteristic makes it particularly suitable for use in stages to which automatic-volume-control is applied.

GENERAL

Cathode - Coated Filament
 Filament Voltage, D-C 1.4 Volts
 Filament Current 0.05 Ampere
 Envelope - T-5½, Glass
 Base - E7-1, Miniature Button 7-Pin
 Mounting Position - Any

Direct Interelectrode Capacitances	With Shield *	Without Shield	
Grid-Number 1 to Plate, maximum	0.01	0.01	μμf
Input	3.6	3.6	μμf
Output	7.5	7.5	μμf

MAXIMUM RATINGS

DESIGN-CENTER VALUES

Plate Voltage	90	Volts
Screen Voltage	90	Volts
Positive D-C Grid-Number 1 Voltage	0	Volts
D-C Cathode Current	5.5	Milliamperes

CHARACTERISTICS AND TYPICAL OPERATION

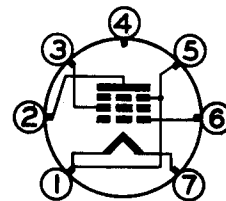
CLASS A₁ AMPLIFIER

Plate Voltage	45	67.5	90	90	Volts
Screen Voltage	45	67.5	45	67.5	Volts
Grid-Number 1 Voltage	0	0	0	0	Volts
Plate Resistance, approximate	0.35	0.25	0.8	0.5	Megohm
Transconductance	700	875	750	900	Micromhos
Plate Current	1.7	3.4	1.8	3.5	Milliamperes
Screen Current	0.7	1.5	0.65	1.4	Milliamperes
Grid-Number 1 Voltage, approximate, G _m = 10 Micromhos	-10	-16	-10	-16	Volts

* With external shield (RTMA 316) connected to pin 1.

Note: All voltages are referred to the negative terminal of the filament.

BASING DIAGRAM

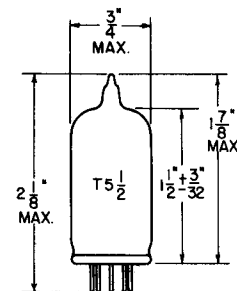


RTMA 6AR
BOTTOM VIEW

TERMINAL CONNECTIONS

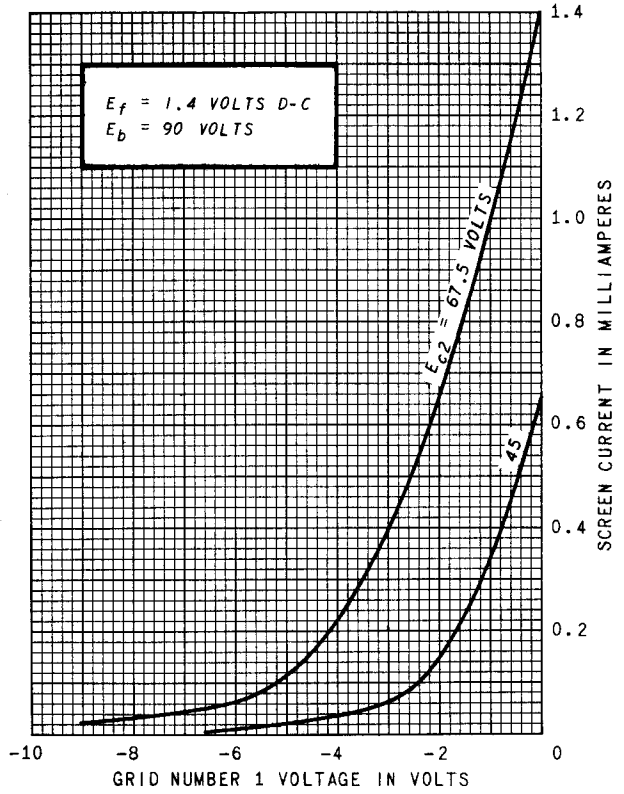
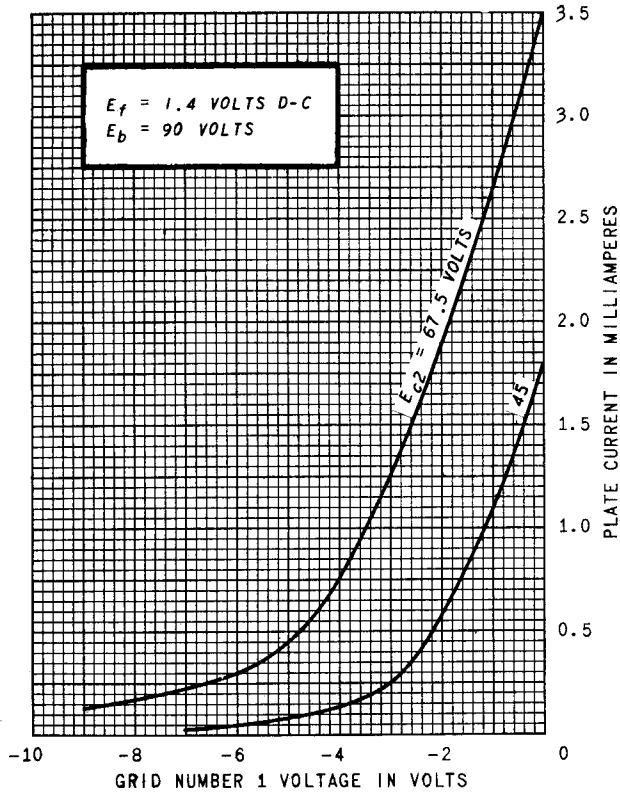
- Pin 1 - Negative Filament, Internal Shield, and Grid Number 3
- Pin 2 - Plate
- Pin 3 - Grid Number 2 (Screen)
- Pin 4 - No Connection
- Pin 5 - Negative Filament, Internal Shield, and Grid Number 3
- Pin 6 - Grid Number 1
- Pin 7 - Positive Filament

PHYSICAL DIMENSIONS

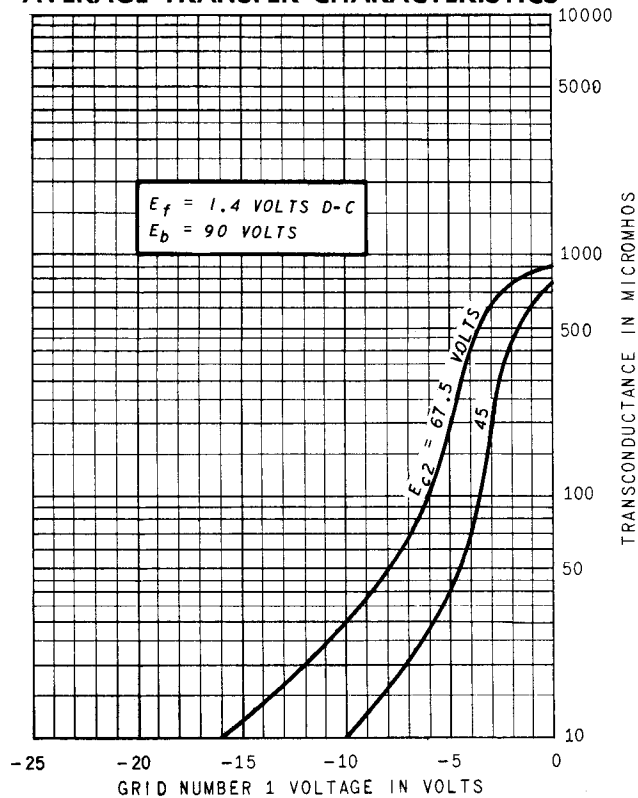


RTMA 5-2

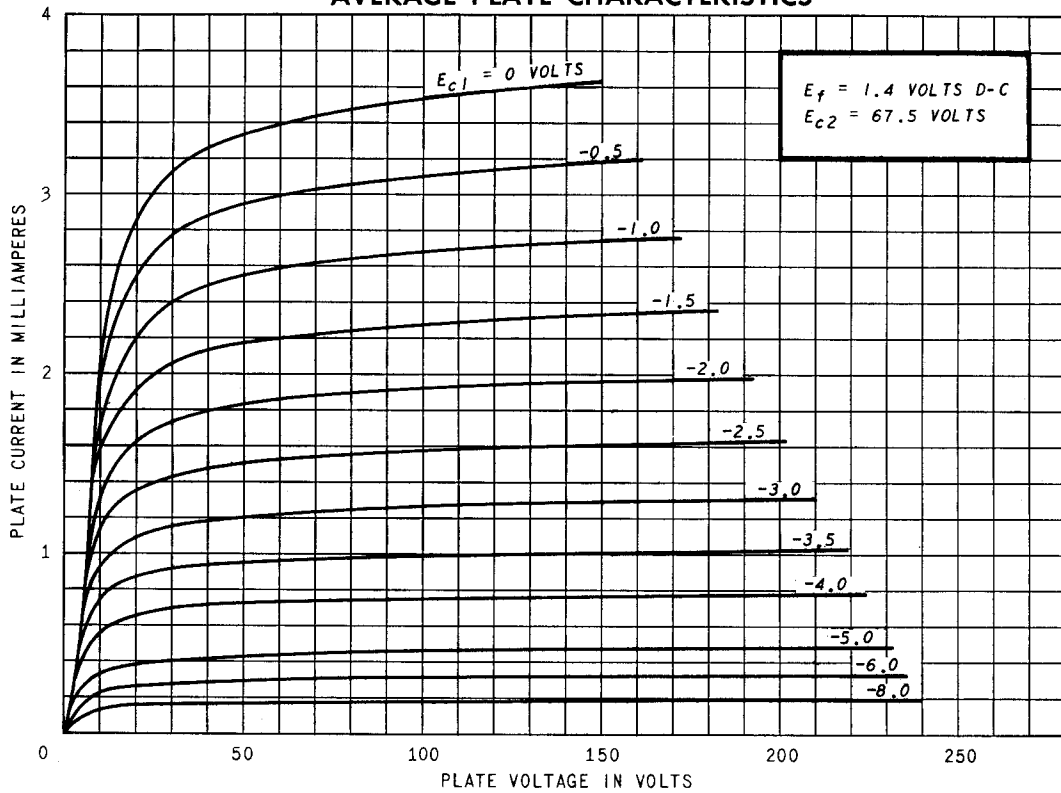
AVERAGE TRANSFER CHARACTERISTICS



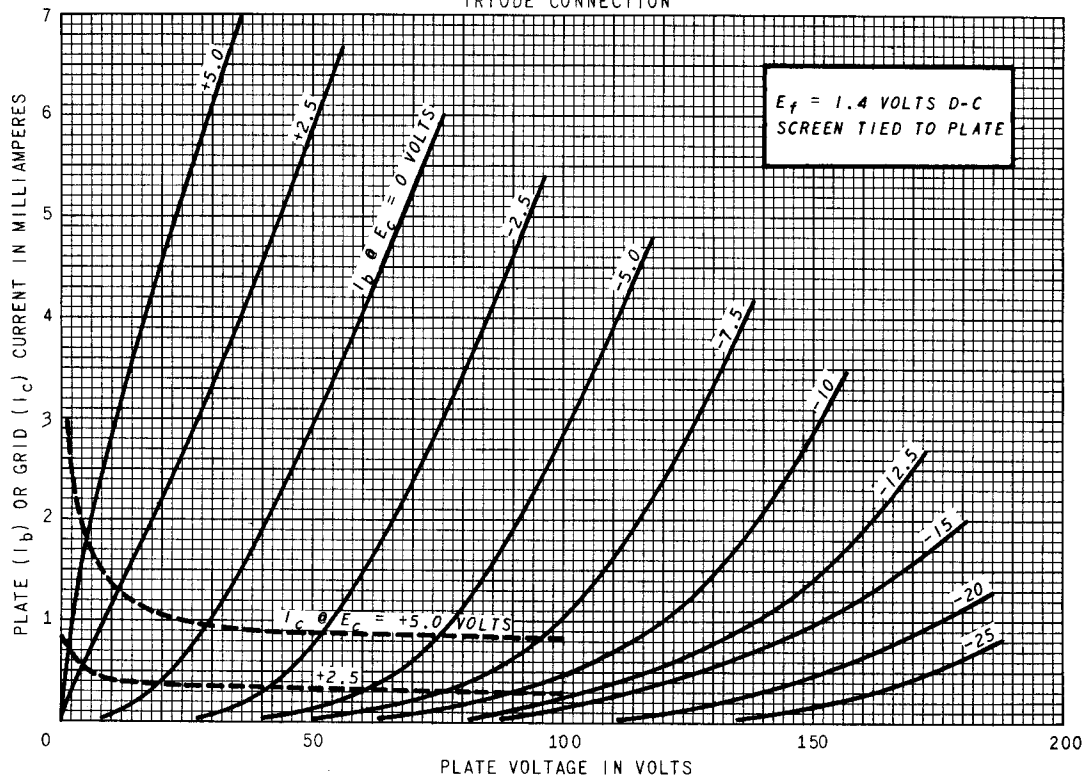
AVERAGE TRANSFER CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS
TRIODE CONNECTION



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