

**TUNG-SOL**

**TRIODE**

MINIATURE TYPE

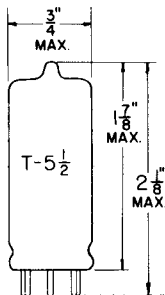
COATED UNIPOTENTIAL CATHODE

HEATER

SERIES SUPPLY

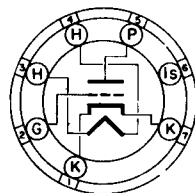
3.1 VOLTS 0.45 AMP.

ANY MOUNTING POSITION



**GLASS BULB**

5-2



**BOTTOM VIEW**

7FP

THE 3FY5 IS A REMOTE CUT-OFF, FRAME GRID SHIELDED TRIODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS ESPECIALLY DESIGNED FOR SERVICE IN VHF TUNERS OF TELEVISION RECEIVERS, AND IS CONTROLLED FOR LOW NOISE FIGURE AT 220 MC/S AND OPERATION AT LOW SUPPLY VOLTAGES. EXCEPT FOR HEATER RATINGS, THE 3FY5 IS IDENTICAL TO THE 2FY5 AND THE 6FY5.

**DIRECT INTERELECTRODE CAPACITANCES**

	WITHOUT EXT. SHIELD	WITH EXT. SHIELD	
INPUT	4.75	4.75	$\mu\mu\text{f}$
OUTPUT	3.3	4.3	$\mu\mu\text{f}$
GRID TO HEATER (MAX.)	0.28	0.28	$\mu\mu\text{f}$
PLATE TO CATHODE	0.25	0.21	$\mu\mu\text{f}$
GRID TO CATHODE	3.2	3.2	$\mu\mu\text{f}$
CATHODE TO HEATER	2.5	2.5	$\mu\mu\text{f}$
PLATE TO GRID	0.50	0.48	$\mu\mu\text{f}$

**RATINGS**

ABSOLUTE MAXIMUM VALUES

HEATER VOLTAGE		3.1	VOLTS
MAXIMUM PLATE VOLTAGE		200	VOLTS
MAXIMUM PLATE VOLTAGE (ZERO PLATE CURRENT)		550	VOLTS
MAXIMUM PLATE DISSIPATION		2.2	WATTS
MAXIMUM CATHODE CURRENT		20	MA.
MAXIMUM NEGATIVE GRID VOLTAGE		50	VOLTS
MAXIMUM GRID CIRCUIT RESISTANCE		1	MEGOHM
MAXIMUM CATHODE-HEATER VOLTAGE		100	VOLTS
MAXIMUM CATHODE-HEATER CIRCUIT RESISTANCE		20 000	OHMS

**TYPICAL OPERATION**

HEATER VOLTAGE		3.3	VOLTS	
HEATER CURRENT		0.45	AMP.	
PLATE VOLTAGE	135	135	135	VOLTS
NEGATIVE GRID BIAS	1	3.1	5	VOLTS
PLATE CURRENT	11		0.1	MA.
TRANSCONDUCTANCE	13 000	625	125	$\mu\text{MHOS}$
AMPLIFICATION FACTOR	70			