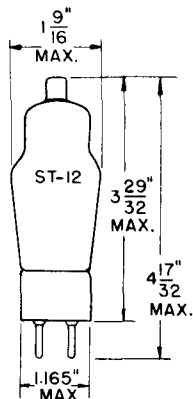


TUNG-SOL

HALF WAVE, HIGH VACUUM RECTIFIER



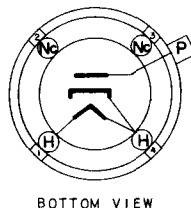
COATED UNIPOTENTIAL CATHODE

HEATER
2.5 VOLTS^A 1.75 AMPERES
AC

GLASS BULB

SMALL 4 PIN BASE

MOUNTING POSITION - ANY



BOTTOM VIEW

THE 2X2 (879) IS INTENDED FOR USE AS THE RECTIFIER IN THE HIGH VOLTAGE SUPPLY FOR CATHODE-RAY TUBES.

RATINGS*

MAXIMUM AC PLATE VOLTAGE (RMS) ^B	4500	VOLTS
MAXIMUM PEAK INVERSE VOLTAGE	12500	VOLTS
MAXIMUM PEAK PLATE CURRENT	100	MA.
MAXIMUM DC OUTPUT CURRENT	7.5	MA.
TOTAL EFFECTIVE PLATE-SUPPLY IMPEDANCE (MIN.)		

*INTERPRETED ACCORDING TO RMA STANDARD MB-210

^A IT IS IMPORTANT THAT THE HEATER TRANSFORMER SECONDARY BE INSULATED TO WITHSTAND THE MAXIMUM PEAK INVERSE VOLTAGE ENCOUNTERED IN THE INSTALLATION.

^B IN A VOLTAGE DOUBLER CIRCUIT THE TWO 2X2 TUBES MAY BE OPERATED TO DELIVER APPROXIMATELY TWICE THE VOLTAGE OBTAINABLE FROM A HALF-WAVE RECTIFIER CIRCUIT FOR THE SAME AC INPUT VOLTAGE. IN THIS CASE A SEPARATE HEATER SUPPLY WINDING IS REQUIRED FOR EACH TUBE.

SMOOTHING FILTER REQUIREMENTS, DUE TO THE LOW CURRENT DEMAND OF CATHODE-RAY TUBES, MAY BE MET BY A SIMPLE RESISTIVE CAPACITIVE FILTER. WITH A BLEEDER LOAD CURRENT OF 1 MILLIAMPERE A CONDENSER OF 0.05 μ f FOLLOWED BY A 0.5 MEGOHM RESISTOR AND A SECOND CONDENSER OF 0.15 μ f IS ADEQUATE. WHEN THE VOLTAGE DROP MUST BE KEPT AT A MINIMUM, A CONDENSER OF 0.5 TO 2 μ f MAY BE SHUNTED ACROSS THE BLEEDER. FILTER CONDENSERS MUST HAVE A RATING TO WITHSTAND THE INSTANTANEOUS PEAK AC INPUT VOLTAGE.