



ELECTRON TUBE DIVISION

CLIFTON, NEW JERSEY

INTERNATIONAL TELEPHONE AND TELEGRAPH CORPORATION

KUTHE
TYPE 7603

CROWBAR THYRATRON

DESCRIPTION:

THE TYPE 7603 IS A HYDROGEN THYRATRON DESIGNED FOR CROWBAR SERVICE. THIS TUBE IS EQUIPPED WITH A HYDROGEN RESERVOIR FOR MAXIMUM DEPENDABILITY. THIS TUBE WAS PREVIOUSLY DESIGNATED BY THE TYPE NUMBER KU-401.

ELECTRICAL DATA, GENERAL:

	<u>NOM.</u>	<u>MIN.</u>	<u>MAX.</u>	
HEATER VOLTAGE	6.3	6.0	6.6	VOLTS AC
HEATER CURRENT (AT 6.3 VOLTS)		5.5	6.7	AMPERES
MINIMUM HEATING TIME			3	MINUTES

MECHANICAL DATA, GENERAL:

MOUNTING POSITION	ANY
BASE	SEE OUTLINE
COOLING	NOT REQUIRED
NET WEIGHT	8 OUNCES
DIMENSIONS	PER OUTLINE

RATINGS:

MAX. PEAK ANODE VOLTAGE, FORWARD, OPERATING	10.0	KILOVOLTS
MAX. PEAK ANODE VOLTAGE, INVERSE	8.0	KILOVOLTS
MIN. ANODE SUPPLY VOLTAGE	4.0	KILOVOLTS DC
MAX. PEAK ANODE CURRENT (NOTE 1)	200	AMPERES
AVERAGING TIME	10	SECONDS
MAX. DISCHARGE TIME (NOTE 1)	0.1	SECONDS
PEAK TRIGGER VOLTAGE (NOTE 2)		
MAX. ANODE DELAY TIME	1.0	MICROSECONDS
AMBIENT TEMPERATURE	-55° TO 75°	C

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NOTE 1:

THE ALLOWABLE TIME OF DISCHARGE VARIES WITH THE CURRENT AS SHOWN:

RECTIFIER SHORT CIRCUIT PERIOD	1.5	-	100 MS	5A
" " " "	1.5	-	50 MS	10A
" " " "	1.5	-	30 MS	25A
FILTER DISCHARGE	0	-	1.5 MS	200A

TIME WILL BE MEASURED FROM THE INITIATION OF THE DISCHARGE.

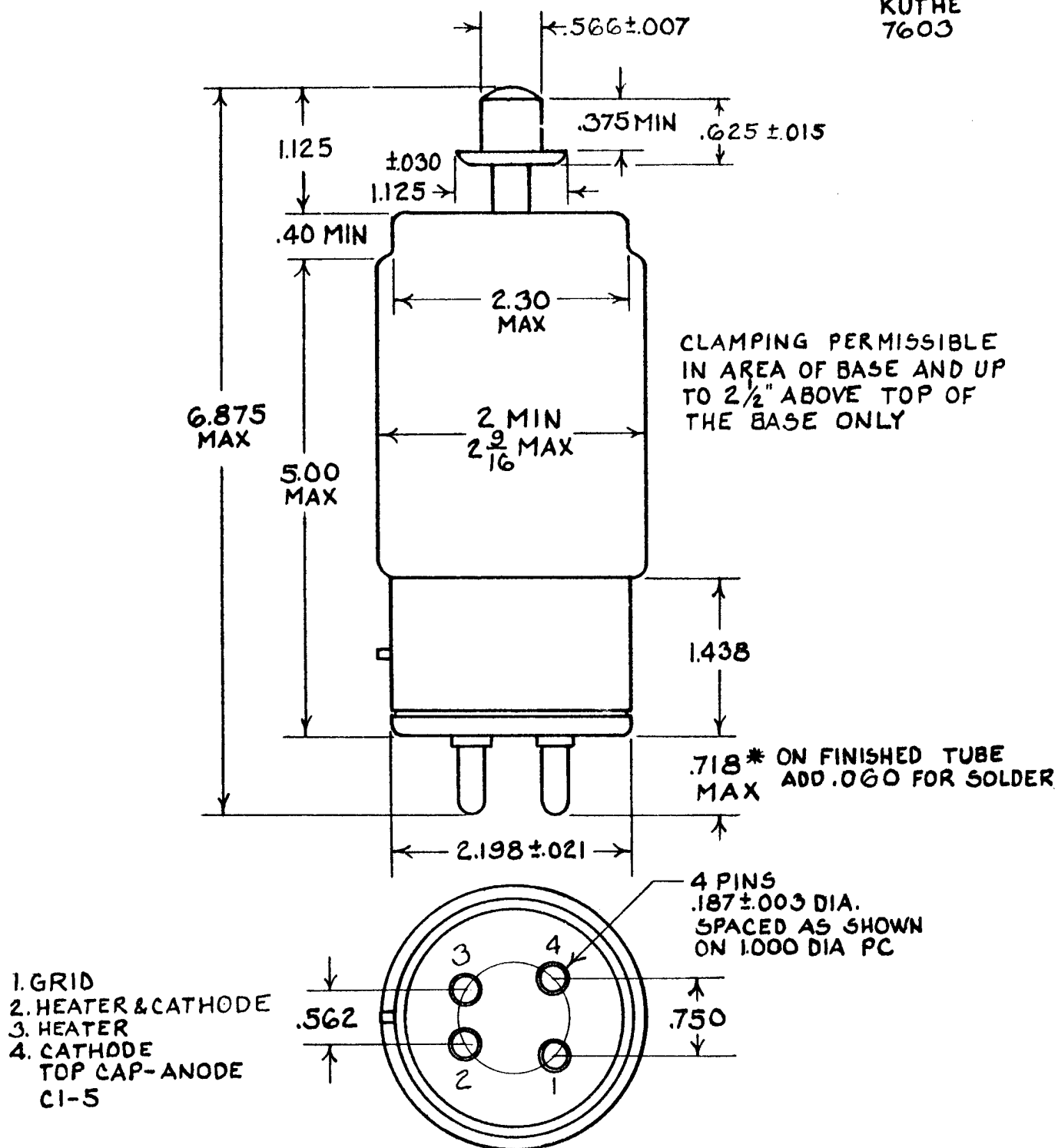
NOTE 2:

THE TRIGGER PULSE MEASURED AT THE TUBE SOCKET WITH THE THYRATRON GRID DISCONNECTED SHALL BE: EGY = 175 VOLTS MINIMUM, 1,000 VOLTS MAXIMUM; TIME OF RISE = 0.5 US (MAX.); TP = 2.0 US MINIMUM; IMPEDANCE OF TRIGGER CIRCUIT 50 - 1,500 OHMS.

ADDITIONAL INFORMATION FOR SPECIFIC APPLICATIONS CAN BE OBTAINED FROM THE -

ELECTRON TUBE APPLICATIONS SECTION
ITT COMPONENTS DIVISION
POST OFFICE BOX 412
CLIFTON, NEW JERSEY

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SUPER JUMBO 4-PIN WITH BAYONET
A4-18 MIL-E-1D WITH CERAMIC INSERT