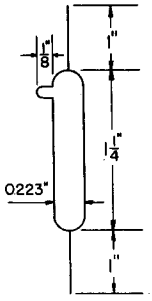
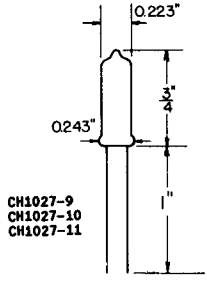
TUNG-SOL

CURPISTOR, MINUTE CURRENT REGULATOR



CH1027-12

ANY MOUNTING POSITION



CH1027-9
CH1027-10
CH1027-11

THE CH1027 FAMILY IS A SERIES OF SUBMINIATURE, TWO ELECTRODE, RADIOACTIVE, NITROGEN FILLED CONSTANT CURRENT TUBES. THEY ARE AVAILABLE IN CURRENT RATINGS FROM 10^{-12} TO 10^{-9} AMPERES. FOR THE TOLERANCES SHOWN BELOW, CURRENT PLATEAUS CAN EXTEND AS LOW AS 25 VOLTS AND AS HIGH AS 500 VOLTS.

BECAUSE OF THEIR CLOSE TOLERANCES AND EXTREMELY LONG LIFE, CURPISTORS PROVIDE A CIRCUIT FUNCTION NOT OBTAINABLE BY ANY OTHER SIMPLE COMPONENT.

CURRENT RATING

CH1027 - 9	10^{-9}	AMPS
CH1027- 10	10^{-10}	AMPS
CH1027- 11	10^{-11}	AMPS
CH1027- 12	10^{-12}	AMPS.

NET WEIGHT - approx.

CH1027 - 9, - 10, & -11	0.03	OUNCES
CH1027-12	0.06	OUNCES

BASE

CH1027 -9, -10, & -11 .....SUBMINIATURE FLAT PRESS WITH TWO FLYING LEADS

CH1027 -12 .....DOUBLE ENDED (SEE DIAGRAM)

MOUNTING POSITION.....ANY

LIFE.....UNLIMITED (HALF LIFE = 1620 YEARS)

AMBIENT TEMPERATURE RATING -70 TO +80 ° C

ACTIVE MATERIAL.....RADIUM 226

MAXIMUM CURRENT VARIATION FROM CENTER VALUE

FOR PLATEAUS FROM 25 TO 500 VOLTS

CH1027-9 & CH1027-10	±1	PERCENT
CH1027-11 & CH1027-12	±2	PERCENT

CONTINUED ON FOLLOWING PAGE

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

ACTIVITY

CH1027-9	18.75	μCURIES
CH1027-10	1.875	μCURIES
CH1027-11	0.1875	μCURIES
CH1027-12	0.01875	μCURIES

LEAD MATERIAL..... (TINNED) COPPER

TYPICAL APPLICATIONS

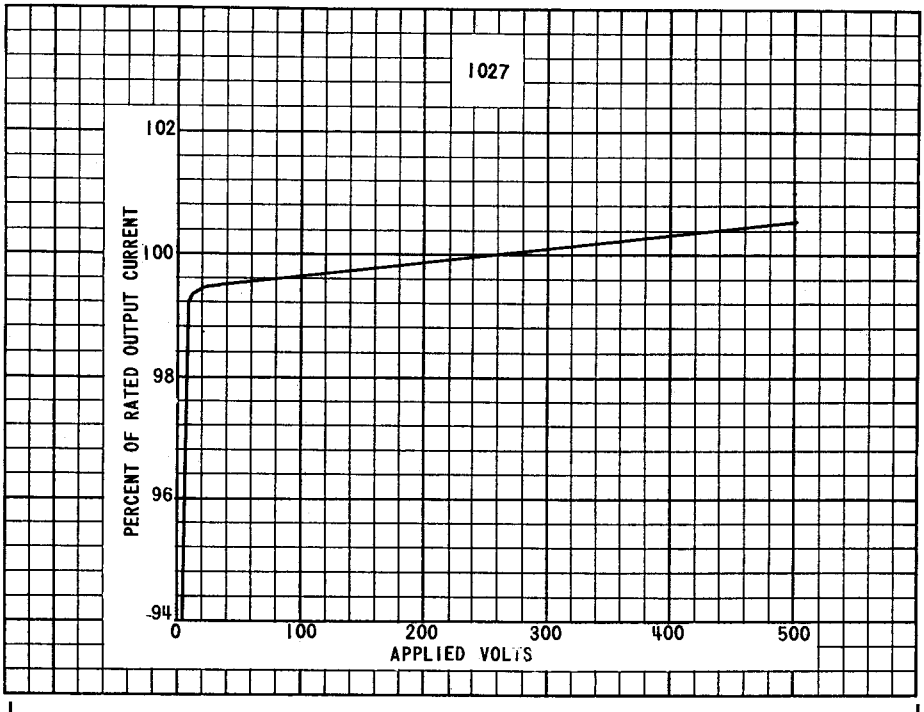
THE CURPISTOR IS SUITABLE AS A COMPONENT TO BE USED FOR:

CONSTANT CAPACITOR DRAIN OR CHARGE IN:
- MISSILE TIMING CIRCUITS
- ORDNANCE MINE TIMING CIRCUITS

INSTRUMENT BIAS

IONIZATION CHAMBER TESTING

CALIBRATION (AS A STANDARD)



THE CURPISTOR SHOULD BE HANDLED IN ACCORDANCE WITH THE ATOMIC ENERGY COMMISSION'S REGULATIONS FOR THE ACTIVITY OF THE MAGNITUDE INDICATED FOR THE VARIOUS UNITS. THESE MAGNITUDES ARE NOT GREAT ENOUGH TO CONSTITUTE A HAZARD TO PERSONNEL IF PROPER PRECAUTIONS ARE TAKEN. PERSONNEL ARE CAUTIONED NOT TO HANDLE BROKEN TUBES SO AS TO AVOID THE ENTRANCE OF THE RADIOACTIVE MATERIAL DIRECTLY INTO THE BLOODSTREAM THROUGH CUTS. IF ONE IS CUT ON A BROKEN TUBE, THE CUT SHOULD BE CLEANED IMMEDIATELY. AN OPEN CUT CAN BE CLEANED BY HOLDING IT IN RUNNING WATER. IF A TUBE IS BROKEN, CARE SHOULD BE TAKEN THAT THE GAS IS NOT INHALED.

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