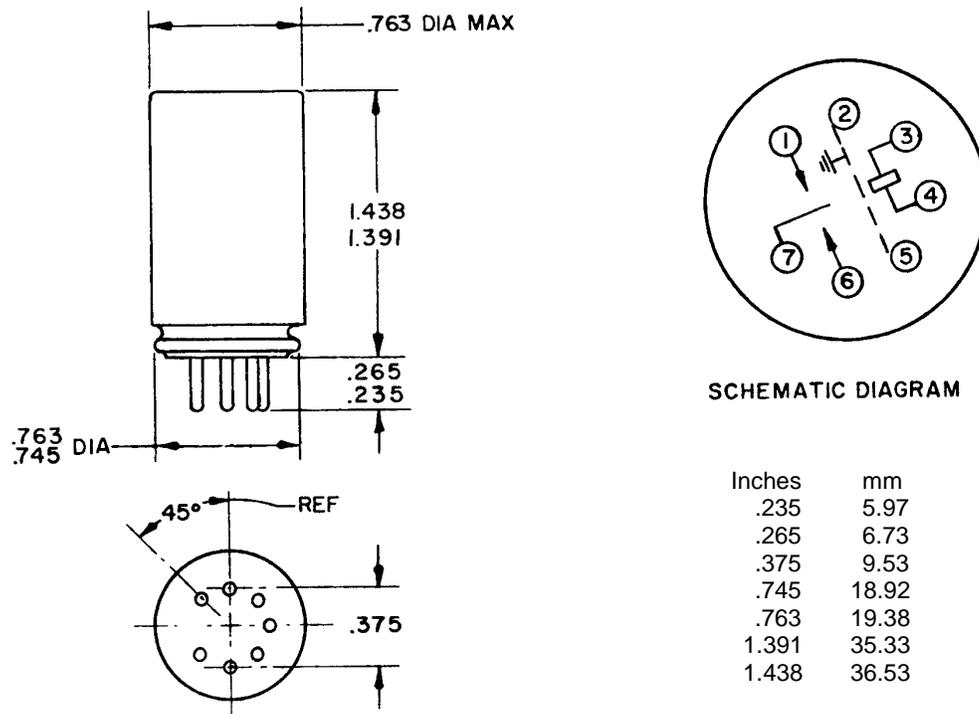


DETAIL SPECIFICATION SHEET

CHOPPERS, ELECTROMECHANICAL, HERMETICALLY SEALED,
 SINGLE POLE, DOUBLE THROW, BREAK BEFORE MAKE

This specification is approved for use by all Departments
 and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist
 of this specification sheet and the latest issue of MIL-DTL-83729.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances is ± 0.005 (.13mm).
4. Manner of presenting the diagram is optional. Numbers are not required if shown with respect to terminal arrangement.
5. When the coil is de-energized the center reed may be in any of 3 positions.

FIGURE 1. Outline drawing, terminal arrangement and schematic diagram.

MIL-DTL-83729/6B

REQUIREMENTS:

Contact data:

Single pole, double throw, break before make.

Polarity: With positive dc voltage on pin 3 and negative voltage on pin 4, pins 6 and 7 are closed.

Voltage and current: Dry circuit to 100 volts, 2 milliamperes dc resistive (maximum intermittent rating) 10 Volts, 1 milliampere continuous dc resistive rating.

Coil data:

Voltage rated: 6.3 volts ± 0.6 volts rms.

Resistance, dc: 155 ohms ± 10 percent @ 25°C.

Impedance: See table I.

Frequency range: See table I.

Waveform characteristics (6.3 volts @ 25°C $\pm 5^\circ$ C):

Dwell time: See table I.

Dissymmetry : 15° maximum.

Transfer time: See table I.

Phase angle: See table I.

Noise level: See table I.

Environmental conditions:

Dielectric withstanding voltage: See table I.

Insulation resistance: Between terminals and case, 1,000 megohms at 100 volts dc.

Vibration III: Nonoperating, MIL-STD-202, method 204, condition A, except 5g's maximum.

Shock: Nonoperating, 100g's per MIL-STD-202, method 213, test condition I.

Temperature range: -65°C to +125°C.

Life: 5,000 hours minimum @ dry circuit, 25°C $\pm 5^\circ$ C.

Mechanical:

Weight: .09 pound, maximum.

Dimensions: See figure 1.

Enclosure: Hermetically sealed, chopper mates with JAN TS102P01 socket with a TS102U02 tube shield to secure it in the socket.

Terminal strength: 2.5 pounds.

Mounting position: Any.

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Part number: M83729/6- (dash number from table I).

TABLE I. Dash number and characteristics.

Dash number	Impedance	Frequency range	Dwell time	Transfer time	Phase angle	Noise level	Dielectric Withstanding voltage
001	250 ±20% @ 25°C	400 ±20 Hz	130° to 165°	15° min	65° ±15°	200 microvolts rms above system noise level with 1.0 meg- ohm load resistor.	200 V rms @ 60 Hz or 280 V dc
002	175 ±20% @ 25°C	60 ±5%	150° min	3° min	20° ±5°	50 microvolts rms above system noise level with 1.0 meg- ohm load resistor.	200 V rms @ 60 Hz or 280 V dc

Custodians:
 Army - CR
 Navy - EC
 Air Force - 11
 DLA - CC

Preparing activity:
 DLA - CC

(Project 5945-1152-05)

Review activities:
 Army - AT, AV, MI
 Navy - AS, MC, OS
 Air Force - 19