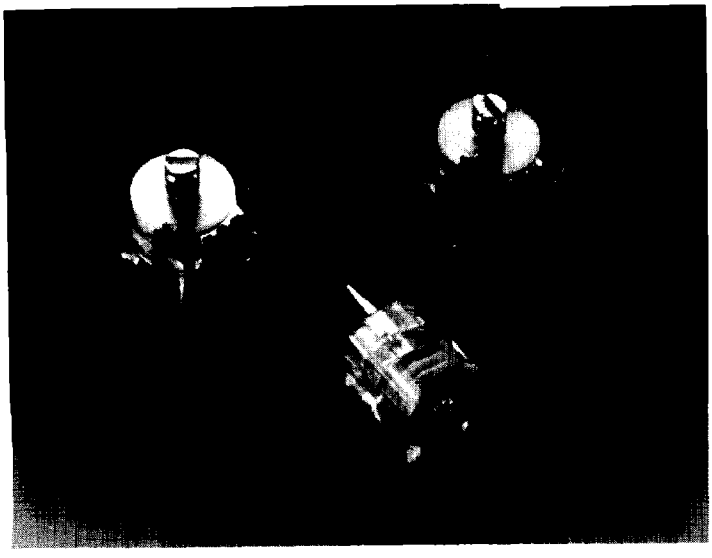
SERIES 2800 D/E/L/M (809)

Film Dielectric Trimmer Capacitors For Professional Applications



DESCRIPTION

6mm x 8 mm x 9mm

The trimmers consist of a polysulphone housing, brass rotor and plated brass stator with a PTFE film as the dielectric. The stator plates with their tag are heat sealed to the housing. The rotor contact surfaces are plated to ensure a long life and a stable contact even under severe climatic conditions. Flux absorption between the vanes is prevented. A color dot indicates the maximum capacitance.

The trimmers have top and bottom adjustment. Top adjustment should be done by means of a screwdriver and bottom adjustment by means of the key as shown in Fig. 7.

11mm x 14mm x 9mm

The trimmers consist of a glass reinforced polysulphone frame with a polysulphone dust cover, brass rotor and stator with PTFE or polycarbonate film as the dielectric. The stator plates are stacked on pins and separated by rings, so that it is possible to produce a single-stator or a differential type. The rotor contact surfaces are plated to ensure a long life and a stable contact even under severe climatic conditions.

The trimmers have top adjustment by means of a screwdriver; capacitance increase is obtained with clockwise rotation. (Trimmers with counter-clockwise rotation and trimmers with insulated rotor are available on request.)

10mm x 11mm x 11mm

The trimmers consist of a polysulphone housing, brass rotor and plated brass stator with a PTFE film as the dielectric. The stator plates with their tag are heat-sealed to the housing. The rotor contact surface is plated to ensure a long life and a stable contact even under severe climatic conditions. Flux absorption between the vanes is prevented. A color dot indicates the maximum capacitance.

The trimmers have top and bottom adjustment; top adjustment should be done by means of a screwdriver, bottom adjustment by means of the key according to Fig. 7.

8mm x 9mm x 10mm

The trimmers consist of a polysulphone housing, brass rotor and plated brass stator with a PTFE film as the dielectric. The stator plates with their tag are heat-sealed to the housing. The rotor contact surface is plated to ensure a long life and a stable contact even under severe climatic conditions. Flux absorption between the vanes is prevented. A color dot indicates the maximum capacitance.

Versions with one rotor tag and with two rotor tags are available. The trimmers have top and bottom adjustment; top adjustment should be done by means of a screwdriver, bottom adjustment by means of the key according to Fig. 7.

SERIES 2800D/E/L/M (809)

Series Dielectric Trimmer Capacitors for Professional Applications

HOW TO SPECIFY

Series 2800D FIlm Dielectric Trimmer Capacitors can be completely specified using the following designation:

28	05	D/E/L	1R810	B	H*****
Planar Trimmer Capacitor	**Rotor Diameter** 05= 5mm 08= 8mm 10=10mm	**Professional Types**	**Capacitance Range** Min. & Max. with R Denoting Decimal Point, i.e.: 1.8pf to 10pf =1R810	**Lead Configuration** (See mounting diagrams)	**Dielectric Material** H=PTFE Teflon* K=Polycarbonate

Part Number will also include 5 additional digits on end which are for internal assignments (for reference only)

FEATURES

- Effective angle of rotation: 180°
- Operating torque:
  6mm x 8mm x 9mm (C_{max} = 3.5pf) 1 to 15 mNm (.14 to 2.1 ounce inches)
  (C_{max} = 10 and 18pf) 2.5 to 20 mNm (.35 to 2.8 ounce inches)
  11mm x 14mm x 9mm 1.5 to 25 mNm (.21 to 3.5 ounce inches)
  10mm x 11mm x 11mm 2 to 25 mNm (.28 to 3.5 ounce inches)
  8mm x 9mm x 10mm (C_{max} = 5.5pf) 1 to 15 mNm (.14 to 2.1 ounce inches)
  (C_{max} = 9 and 18pf) 2.5 to 20 mNm (.35 to 2.8 ounce inches)
- Maximum axial thrust ($\Delta C \leq 0.3\%$ of C_{max}) .2 lb.
- Mounting: Can be mounted on printing-wiring boards with hole diameter min. 1.25mm (.050 inch)
- Soldering conditions: max. 260°C, max. 10 sec.
-

Rated Voltage	Test Voltage (for 1 min.)	Type
300 VDC	600 VDC	6mm x 8mm x 9mm
200 VDC	400 VDC	11mm x 14mm x 9mm
300 VDC	600 VDC	10mm x 11mm x 11mm
300 VDC	500 VDC	8mm x 14mm x 10mm

- Contact resistance max. 5mΩ
- Insulation resistance between stator and rotor: min. 10,000MΩ
- Operating temperature range −40 to +125°C
  Minimum storage temperature −55°C

5 Variable Capacitors

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SERIES 2800D/E/L/M (809)

PTFE Teflon Dielectric Trimmer Capacitors For Professional Applications

Fig. No.	Lead Config-uration	Part Number	Factory Code 2222-809	Guaranteed Cap. Range Min/Max pico-farads	Type	Shape of Head	Dielectric Material	Temp. Coeff. PPM/°C	Minimum Q @ 1 MHz	Minium Q @ 100 MHz	Min. Resonant Freq. at Max Cap. MHz	Color Dot
6mm x 8mm x 9mm 300VDC												
1	B	2805D0R602BH	05011	0.6/2	Single-Stator	Round	PTFE Teflon *	−250+/−200	1000	500	1200	No
2	B	2805L0R602BH	05021	0.6/2	Single-Stator	Hex.	PTFE Teflon	−250+/−200	1000	500	1200	No
1	B	2805D1R203BH	05215	1.2/3.5	Single-Stator	Round	PTFE Teflon	−250+/−200	1000	500	850	Orange
2	B	2805L1R203BH	05225	1.2/3.5	Single-Stator	Hex.	PTFE Teflon	−250+/−200	1000	500	850	Orange
1	B	2805D1R810BH	05216	1.8/10	Single-Stator	Round	PTFE Teflon	−350+/−150	1000	500	580	White
2	B	2805L1R810BH	05226	1.8/10	Single-Stator	Hex.	PTFE Teflon	−350+/−150	1000	500	580	White
1	B	2805D00218BH	05217	2/18	Single-Stator	Round	PTFE Teflon	−350+/−150	1000	400	360	Red
2	B	2805L00218BH	05227	2/18	Single-Stator	Hex.	PTFE Teflon	−350+/−150	1000	400	360	Red
11mm x 14mm x 9mm 200VDC												
3	W	2810M00212WH	07018	2/12	Differential	Slot	PTFE Teflon *	0+/−200	1000	588		*
3	W	2810E2R520WH	07004	2.5/20	Single-Stator	Slot	PTFE Teflon	0+/−200	1000	588		*
3	W	2810M2R520WH	07006	2.5/20	Differential	Slot	PTFE Teflon	0+/−200	1000	588		*
3	W	2810E00440WH	07008	4/40	Single-Stator	Slot	PTFE Teflon	0+/−200	1000	588		*
3	W	2810M00440WH	07009	4/40	Differential	Slot	PTFE Teflon	0+/−200	1000	588		*
3	W	2810E00560WH	07011	5/60	Single-Stator	Slot	PTFE Teflon	0+/−200	1000	400		*
3	W	2810M00560WH	07012	5/60	Differential	Slot	PTFE Teflon	0+/−200	1000	400		*
3	W	2810E00680WH	07013	6/80	Single-Stator	Slot	PTFE Teflon	0+/−200	1000	400		*
3	W	2810M00680WH	07014	6/80	Differential	Slot	PTFE Teflon	0+/−200	1000	400		*
3	W	2810E07100WH	07015	7/100	Single-Stator	Slot	PTFE Teflon	0+/−200	1000	400		*
3	W	2810ME07100WH	07016	7/100	Differential	Slot	PTFE Teflon	0+/−200	1000	400		*
3	W	2810M07150WK	07170	7/150	Differential	Slot	Polycarb.	0+/−200	200			*
10mm x 11mm x 11mm 300VDC												
4	Q	2810D00437QH	08002	4/37	Single-Stator	Round	PTFE Teflon *	−250+/−150	1000	400	170	Yellow
4	Q	2810D00557QH	08003	5/57	Single-Stator	Round	PTFE Teflon	−250+/−150	1000	400	150	Blue
8mm x 9mm x 10mm 300VDC												
5	N	2808D1R405NH	09004	1.4/5.5	Single-Stator	Round	PTFE Teflon *	−250+/−150	1000	666	850	Green
6	M	2808D1R405MH	09001	1.4/5.5	Single-Stator	Round	PTFE Teflon	−250+/−150	1000	666	850	Green
5	N	2808D00209NH	09005	2/9	Single-Stator	Round	PTFE Teflon	−250+/−150	1000	666	580	White
6	M	2808D00209MH	09002	2/9	Single-Stator	Round	PTFE Teflon	−250+/−150	1000	666	580	White
5	N	2808D00218NH	09006	2/18	Single-Stator	Round	PTFE Teflon	−250+/−150	1000	666	360	Red
6	M	2808D00218MH	09003	2/18	Single-Stator	Round	PTFE Teflon	−250+/−150	1000	666	360	Red

*Marking for types 11mm x 14mm x 9mm: Marked with max. capacitance value in pf, followed by the Letter E (Single-Stator Type) or the Letter D (Differential Type).

5 Variable Capacitors

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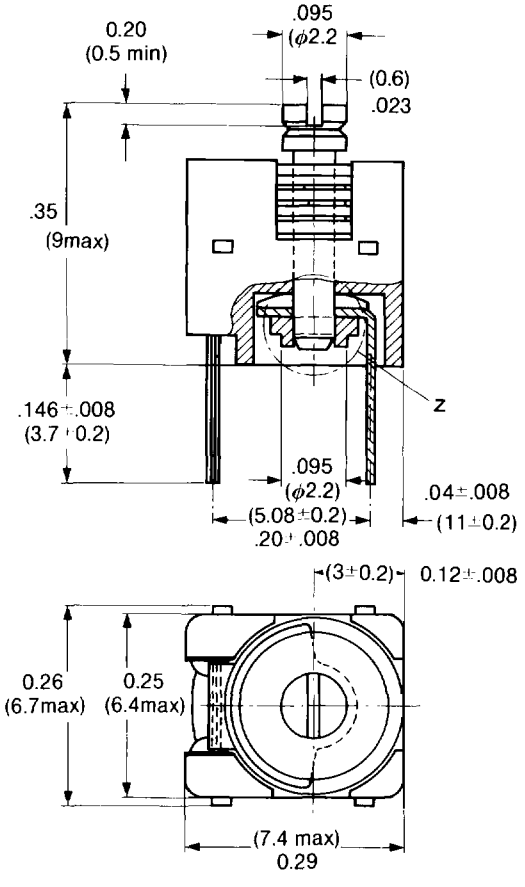


Fig. 1

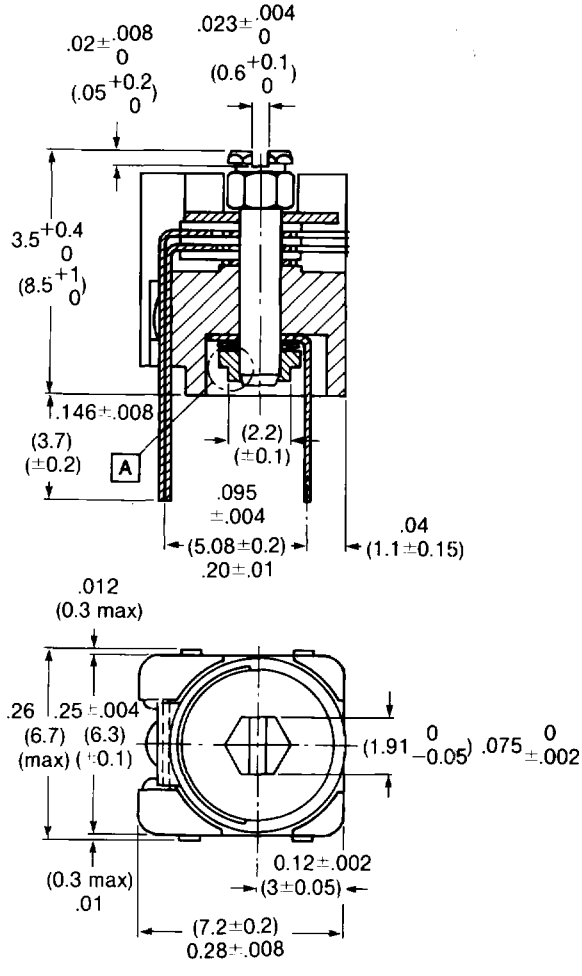


Fig. 2

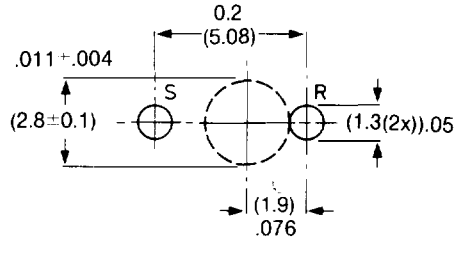


Fig. B

SERIES 2800D/E/LIM (809)

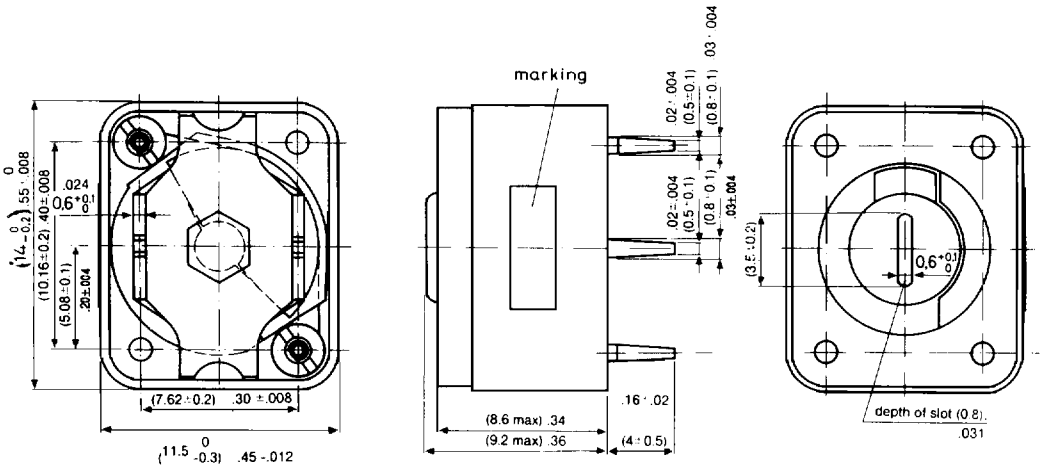


Fig. 3

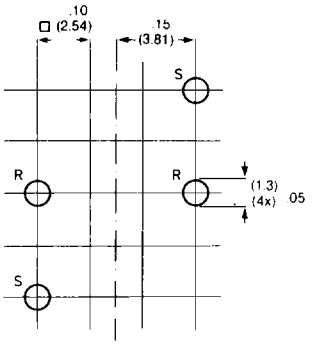


Fig. W

5 Variable Capacitors

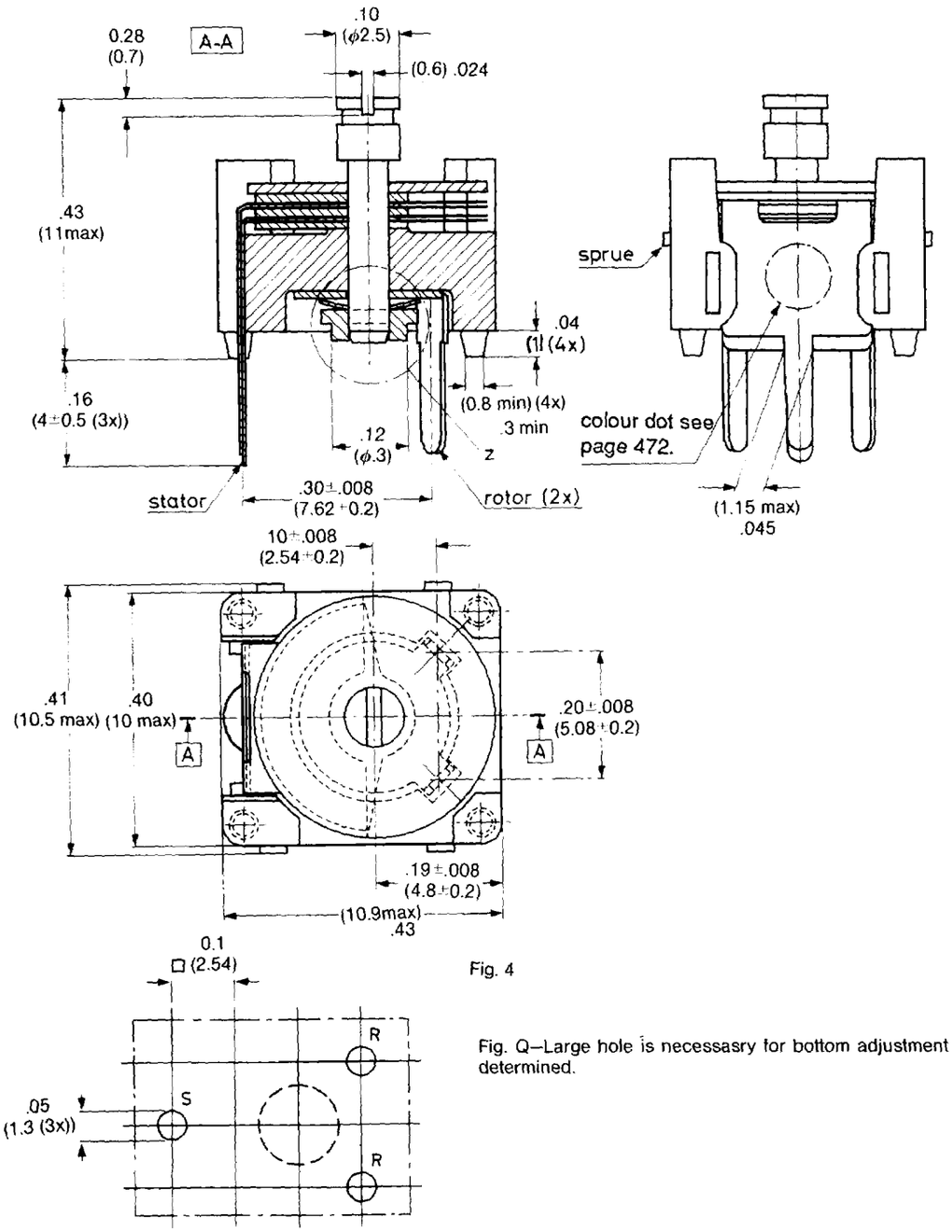
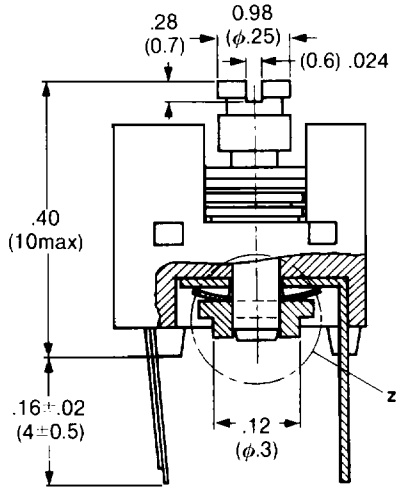
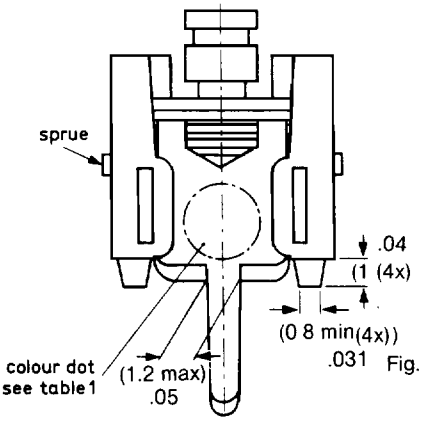


Fig. 4

Fig. Q—Large hole is necessasry for bottom adjustment only, size user determined.





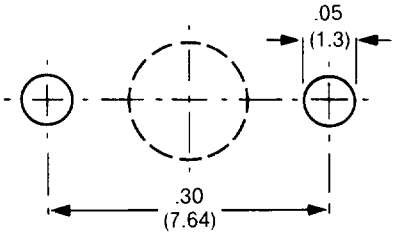
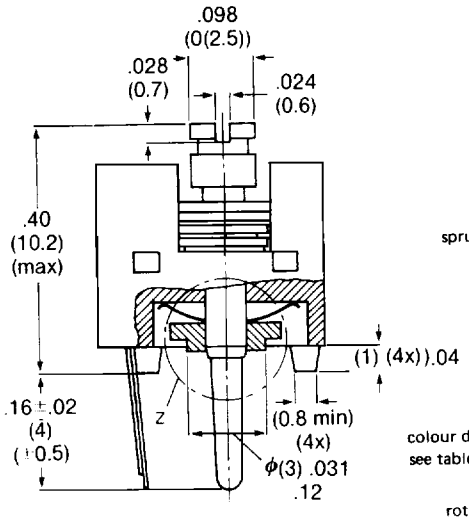
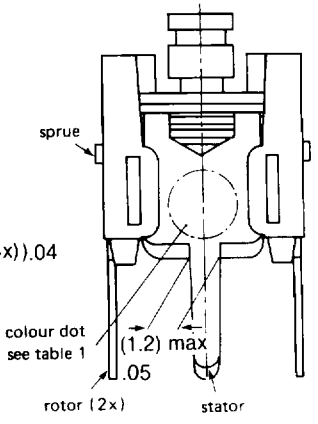


Fig. N.—Large hole for bottom adjustment, sized by user.

Fig. 5 Version with one rotor contact.





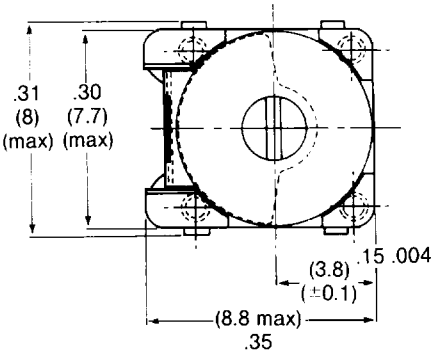


Fig. 6 Version with two rotor contacts.

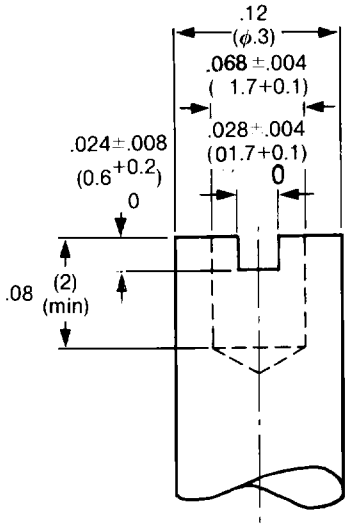


Fig. 7 Key

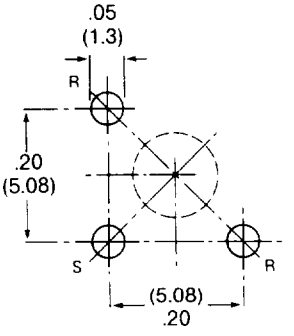


Fig. M