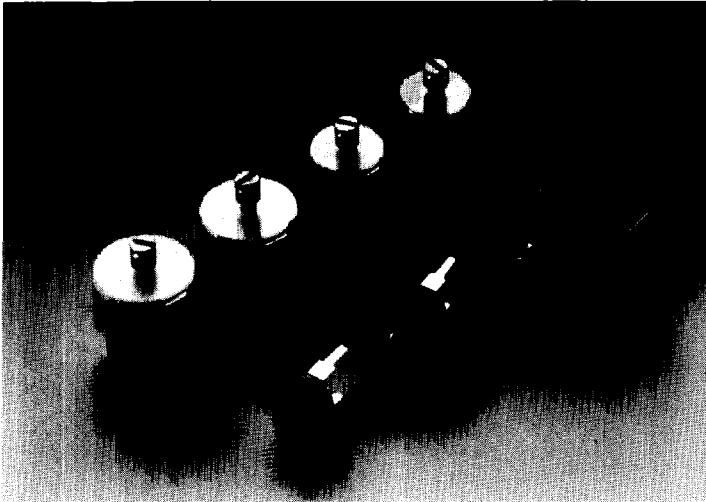


SERIES 2800C/K (808)

Film Dielectric Trimmer Capacitors For Commercial And Industrial Applications



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Variable Capacitors

DESCRIPTION

5mm

The vanes of the trimmer are stacked on a sturdy plastic base, the color of which indicates the maximum capacitance. The dielectric is a film of polypropylene which supports the vanes in such a way that good stability is ensured and no microphony can occur. Flux absorption between the vanes is prevented. The trimmers are resistant to all standard cleaning solvents except trichloroethylene and trichloroethane, however, cleaning is not advised. Top adjustment should be done by means of a screwdriver and bottom adjustment by means of the key as shown in Fig. 10.

7.5mm

The vanes of the trimmers are stacked on a sturdy plastic base, the colour of which indicates the maximum capacitance. The dielectric is a film of polypropylene, polyethylene, polycarbonate or PTFE which supports the vanes in such a way that good stability is ensured and no microphony can occur. Flux absorption between the vanes is prevented.

The trimmers are resistant to all cleaning solvents except trichloroethane and trichloroethylene.

A version with vertical spindle (Fig. 2 and 3) and a version with horizontal spindle (Fig. 4) are available. Both versions have top adjustment by means of a screwdriver or trimming key, and bottom adjustment by means of a key according to Fig. 10.

10mm

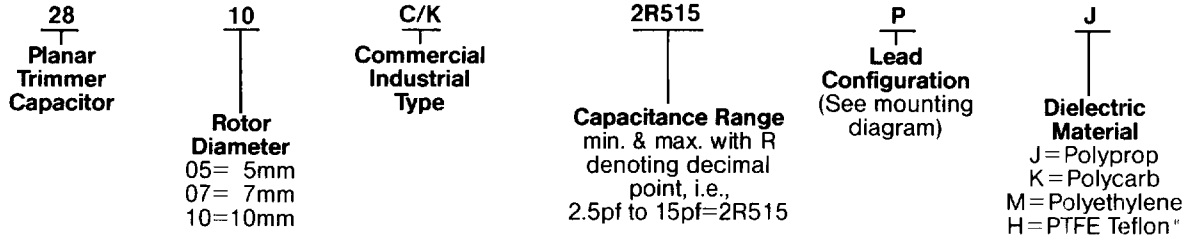
The vanes of the trimmers are stacked on a sturdy plastic base, the colour of which indicates the maximum capacitance. The dielectric is a film of polypropylene, polycarbonate or PTFE which supports the vanes in such a way that good stability is ensured and no microphony can occur. Flux absorption between the vanes is prevented. The trimmers are resistant to all standard cleaning solvents except trichloroethane and trichloroethylene. Top adjustment should be done by means of a screwdriver and bottom adjustment by means of the key as shown in Fig. 10.

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HOW TO SPECIFY

SERIES 2800C Film Dielectric Trimmer Capacitors can be completely specified using the following designation:



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:
 - 5mm 1 to 15 mNm (.14 to 2.1 ounce inches)
 - 7.5mm (6 to 22pf) 1 to 15 mNm (.14 to 2.1 ounce inches)
 - (27 to 50pf) 2 to 25 mNm (.28 to 3.5 ounce inches)
 - 10mm 2 to 25 mNm (.28 to 3.5 ounce inches)
- Maximum axial thrust
($\Delta C \leq 0.3\%$ of C_{max}) .2 lb.
- Mounting: Can be mounted on printed-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 |
|---------------|------------------------------|-------|
| 150 VDC | 300 VDC | 5mm |
| 250 VDC | 500 VDC | 7.5mm |
| 250 VDC | 500 VDC | 10mm |
- Contact resistance max. 10mΩ
- Insulation resistance min. 10,000MΩ
- Minimum storage temperature -55°C

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Film Dielectric Trimmer Capacitors For Commercial And Industrial Applications

Fig. No.	Lead Configuration	Part Number	Factory Code 2222-808	Guaranteed Cap. Range Min/Max picofarads	Spindle	Adjustment Mode	Shape of Head	Dielectric Material	Temp. Coeff. PPM/°C	Minimum Q @ 1 MHz	Temp. Range Deg. C	Min. Resonant Freq. at Max Cap. MHz	Color of Base
5mm Types 150 VDC													
1	H	2805C1R505HJ	20508	1.5/5	Vertical	Top	Round	Polyprop.	-200+/-300	1000	-40 to +70	700	Grey
1	G	2805C1R505GJ	23508	1.5/5	Vertical	Top + Bottom	Round	Polyprop.	-200+/-300	1000	-40 to +70	700	Grey
1	H	2805C00210HJ	20109	2/10	Vertical	Top	Round	Polyprop.	-200+/-300	1000	-40 to +70	500	Yellow
1	G	2805C00210GJ	23109	2/10	Vertical	Top + Bottom	Round	Polyprop.	-200+/-300	1000	-40 to +70	500	Yellow
1	H	2805C2R515HJ	20159	2.5/15	Vertical	Top	Round	Polyprop.	-50+/-200	1000	-40 to +70	400	Blue
1	G	2805C2R515GJ	23159	2.5/15	Vertical	Top + Bottom	Round	Polyprop.	-50+/-200	1000	-40 to +70	400	Blue
1	H	2805C00420HJ	20209	4/20	Vertical	Top	Round	Polyprop.	-50+/-200	1000	-40 to +70	300	Green
1	G	2805C00420GJ	23209	4/20	Vertical	Top + Bottom	Round	Polyprop.	-50+/-200	1000	-40 to +70	300	Green
1	H	2805C4R527HJ	20279	4.5/27	Vertical	Top	Round	Polyprop.	-250+/-200	1000	-40 to +70	300	Red
1	G	2805C4R527GJ	23279	4.5/27	Vertical	Top + Bottom	Round	Polyprop.	-250+/-200	1000	-40 to +70	300	Red
7.5 mm Types 250 VDC													
2	M	2807C1R405MM	11558	1.4/5.5	Vertical	Top + Bottom	Round	Polyethyl.	-400+/-300	1000	-40 to +85	850	Grey
2	Y	2807C1R405YM	00004	1.4/5.5	Vertical	Top	Round	Polyethyl.	-400+/-300	1000	-40 to +85	850	Grey
2	M	2807C00209MH	00018	2/9	Vertical	Top + Bottom	Round	PTFE Teflon*	-500+/-450	1000	-40 to +85	480	Yellow
2	M	2807C00210MJ	11109	2/10	Vertical	Top + Bottom	Round	Polyprop.	-450+/-350	1000	-40 to +70	480	Yellow
2	Y	2807C00210YJ	00005	2/10	Vertical	Top	Round	Polyprop.	-450+/-350	1000	-40 to +70	480	Yellow
3	M	2807K00210MJ	17109	2/10	Vertical	Top	Hex.	Polyprop.	-450+/-350	1000	-40 to +70	480	Yellow
4	X	2807C00210XJ	51109	2/10	Horizont.	Top + Bottom	Round	Polyprop.	-450+/-350	1000	-40 to +70	480	Yellow
2	M	2807C00215MJ	11159	2/15	Vertical	Top + Bottom	Round	Polyprop.	-200+/-350	1000	-40 to +70	450	Blue
2	M	2807C00218MH	00016	2/18	Vertical	Top + Bottom	Round	PTFE Teflon*	-400+/-200	1000	-40 to +85	350	Green
2	M	2807C00222MJ	11229	2/22	Vertical	Top + Bottom	Round	Polyprop.	-250+/-350	1000	-40 to +70	350	Green
2	Y	2807C00222YJ	00006	2/22	Vertical	Top	Round	Polyprop.	-250+/-350	1000	-40 to +70	350	Green
3	Y	2807K00222YJ	17229	2/22	Vertical	Top	Hex.	Polyprop.	-250+/-350	1000	-40 to +70	350	Green
4	X	2807C00222XJ	51229	2/22	Horizont.	Top + Bottom	Round	Polyprop.	-250+/-350	1000	-40 to +70	350	Green
2	M	2807C00227MK	11279	2/27	Vertical	Top + Bottom	Round	Polycarb.	-250+/-300	200	-40 to +85	350	Red
4	X	2807C00227XK	51279	2/27	Horizont.	Top + Bottom	Round	Polycarb.	-250+/-300	200	-40 to +85	350	Red
2	M	2807C00333MJ	11339	3/33	Vertical	Top + Bottom	Round	Polyprop.	-250+/-300	1000	-40 to +70	300	Brown
2	M	2807C00340MJ	11409	3/40	Vertical	Top + Bottom	Round	Polycarb.	-100+/-300	200	-40 to +85	300	Violet
3	Y	2807K00340YJ	17409	3/40	Vertical	Top	Hex.	Polycarb.	-100+/-300	200	-40 to +85	300	Violet
2	X	2807C00340XJ	51409	3/40	Horizont.	Top + Bottom	Round	Polycarb.	-100+/-300	200	-40 to +85	300	Violet
2	M	2807C00350MJ	11509	3/50	Vertical	Top + Bottom	Round	Polycarb.	-100+/-300	200	-40 to +85	250	Black
3	Y	2807K00350YJ	17509	3/50	Vertical	Top	Hex.	Polycarb.	-100+/-300	200	-40 to +85	250	Black
4	X	2807C00350XJ	51509	3/50	Horizont.	Top + Bottom	Round	Polycarb.	-100+/-300	200	-40 to +85	250	Black

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Film Dielectric Trimmer Capacitors For Commercial And Industrial Applications

Fig. No.	Lead Configuration	Part Number	Factory Code 2222-808	Guaranteed Cap. Range Min/Max pico-farads	Spindle	Adjustment Mode	Shape of Head	Dielectric Material	Temp. Coeff. PPM/°C	Minimum Q @ 1 MHz	Temp. Range Deg. C	Min. Resonant Freq. at Max Cap. MHz	Color of Base
10mm Types 250 VDC													
6	P	2810C2R515PJ	31159*	2.5/15	Vertical	Top + Bottom	Round	Polyprop.	-150+/-500	1000	-40 to +70	420	Blue
5	Q	2810C2R515QJ	32159*	2.5/15	Vertical	Top + Bottom	Round	Polyprop.	-150+/-500	1000	-40 to +70	420	Blue
7	U	2810C2R515UJ	61159*	2.5/15	Horizontal	Top + Bottom	Round	Polyprop.	-150+/-500	1000	-40 to +70	420	Blue
6	P	2810C00322PJ	31229*	3/22.5	Vertical	Top + Bottom	Round	Polyprop.	-150+/-400	1000	-40 to +85	200	Green
5	Q	2810C00322QJ	32229*	3/22.5	Vertical	Top + Bottom	Round	Polyprop.	-150+/-400	1000	-40 to +85	200	Green
7	U	2810C00322UJ	61229*	3/22.5	Horizontal	Top + Bottom	Round	Polyprop.	-150+/-400	1000	-40 to +85	200	Green
6	P	2810C5R540PJ	31409	5.5/40	Vertical	Top + Bottom	Round	Polyprop.	-150+/-350	1000	-40 to +70	200	Grey
5	Q	2810C5R540QJ	32409*	5.5/40	Vertical	Top + Bottom	Round	Polyprop.	-150+/-350	1000	-40 to +70	200	Grey
7	U	2810C5R540UJ	61409	5.5/40	Horizontal	Top + Bottom	Round	Polyprop.	-150+/-350	1000	-40 to +70	200	Grey
6	P	2810C5R550PH	01029	5.5/50	Vertical	Top + Bottom	Round	PTFE Teflon*	-500+/-150	1000	-40 to +85	170	Yellow
5	Q	2810C5R550QH	01006*	5.5/50	Vertical	Top + Bottom	Round	PTFE Teflon*	-500+/-150	1000	-40 to +85	170	Yellow
6	P	2810C5R565PJ	31659*	5.5/65	Vertical	Top + Bottom	Round	Polyprop.	-200+/-300	1000	-40 to +85	170	Yellow
5	Q	2810C5R565QJ	32659*	5.5/65	Vertical	Top + Bottom	Round	Polyprop.	-200+/-300	1000	-40 to +85	170	Yellow
8	P	2810K5R565PJ	34569	5.5/65	Vertical	Top + Bottom	Hex.	Polyprop.	-200+/-300	1000	-40 to +85	170	Yellow
7	U	2810K5R565UJ	61659	5.5/65	Horizontal	Top + Bottom	Round	Polyprop.	-200+/-300	1000	-40 to +85	170	Yellow
9	U	2810K5R565UJ	64659	5.5/65	Horizontal	Top + Bottom	Hex.	Polyprop.	-200+/-300	1000	-40 to +85	170	Yellow
6	P	2810C00680PK	31809*	6/80	Vertical	Top + Bottom	Round	Polycarb.	100+/-300	200	-40 to +85	170	Red
8	P	2810K00680PK	34809*	6/80	Vertical	Top + Bottom	Hex.	Polycarb.	-100+/-300	200	-40 to +85	170	Red
5	Q	2810C00680QK	32809	6/80	Vertical	Top + Bottom	Round	Polycarb.	-100+/-300	200	-40 to +85	170	Red
8	Q	2810K00680QK	35809	6/80	Vertical	Top + Bottom	Hex.	Polycarb.	-100+/-300	200	-40 to +85	170	Red
7	U	2810C00680UK	61809	6/80	Horizontal	Top + Bottom	Round	Polycarb.	-100+/-300	200	-40 to +85	170	Red
9	U	2810K00680UK	64809	6/80	Horizontal	Top + Bottom	Hex.	Polycarb.	-100+/-300	200	-40 to +85	170	Red
6	P	2810C07100PK	31101	7/100	Vertical	Top + Bottom	Round	Polycarb.	-100+/-300	200	-40 to +85	170	Violet
5	Q	2810C07100QK	32101*	7/100	Vertical	Top + Bottom	Round	Polycarb.	-100+/-300	200	-40 to +85	170	Violet
7	U	2810C07100UK	61101	7/100	Horizontal	Top + Bottom	Round	Polycarb.	-100+/-300	200	-40 to +85	170	Violet
9	U	2810K07100UK	64101	7/100	Horizontal	Top + Bottom	Hex.	Polycarb.	-100+/-300	200	-40 to +85	170	Violet

*Not for new design.

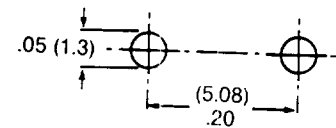
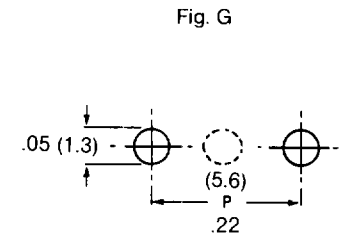
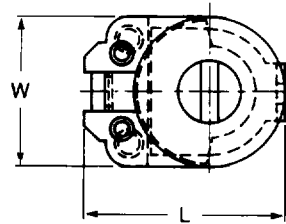
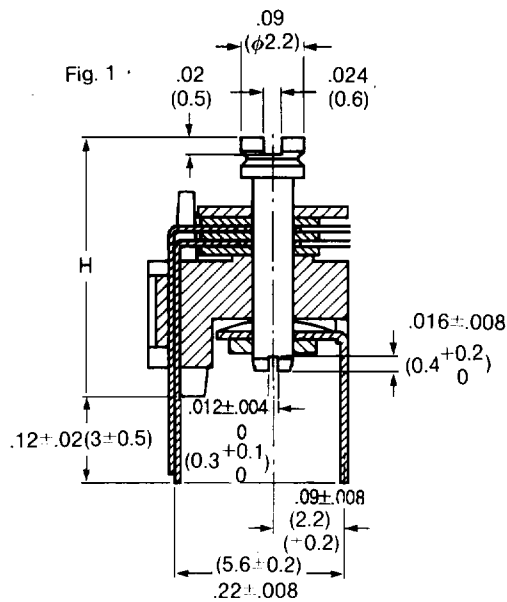
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SERIES 2800C/K (808)

Film Dielectric Trimmer Capacitors



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Cap.	H _{max}		W _{max}		L _{max}	
C _{min} /C _{max} pf	mm	inches	mm	inches	mm	inches
1.5/5	7	.276	5.5	.217	7.3	.288
2/10	7	.276	5.5	.217	7.3	.288
2.5/15	8.8	.347	5.5	.217	7.3	.288
4/20	8.8	.347	5.5	.217	7.3	.288
4.5/27	9.0	.355	6.2	.244	7.8	.307

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Fig. 2

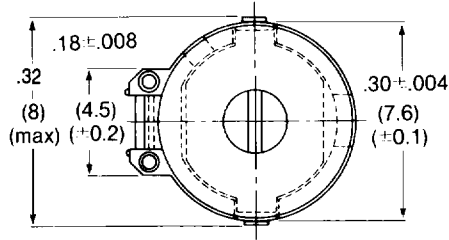
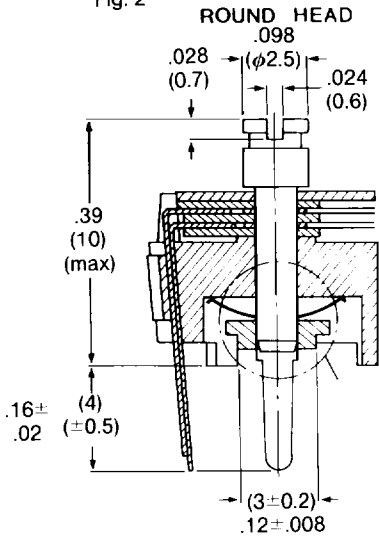


Fig. M

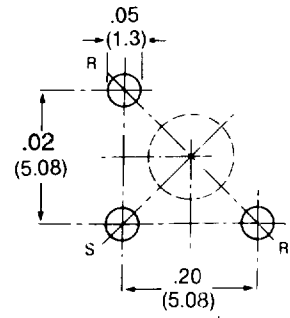


Fig. Y

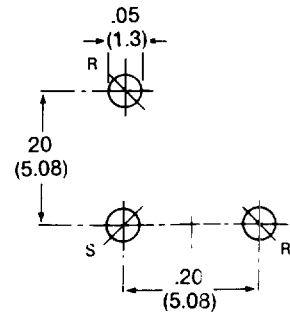


Fig. 3

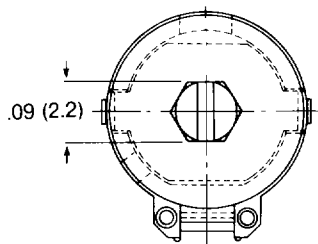
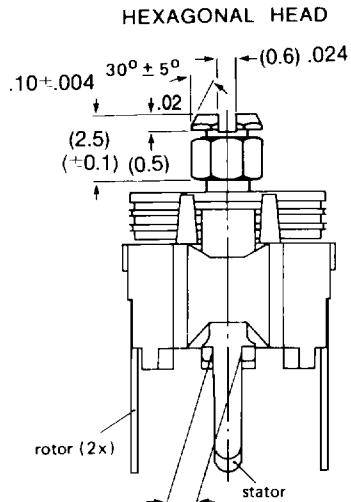


Fig. 4

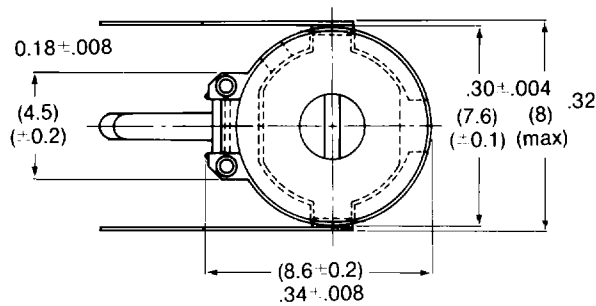
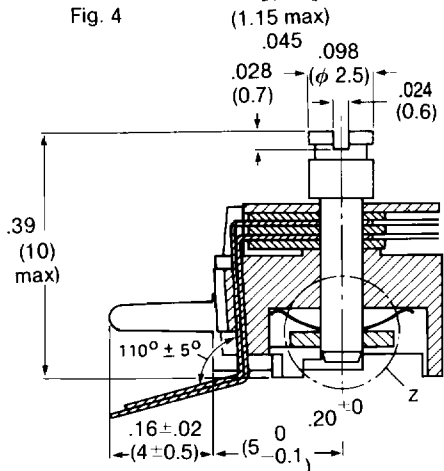
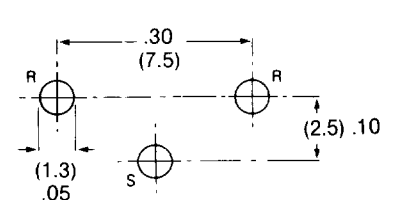


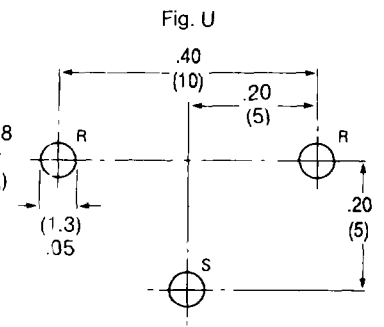
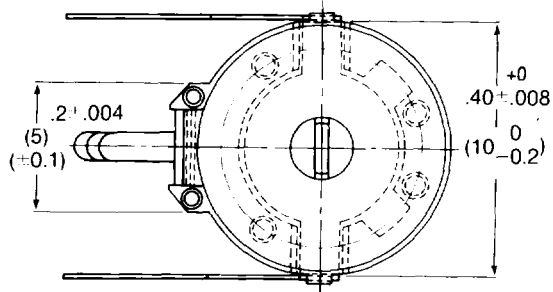
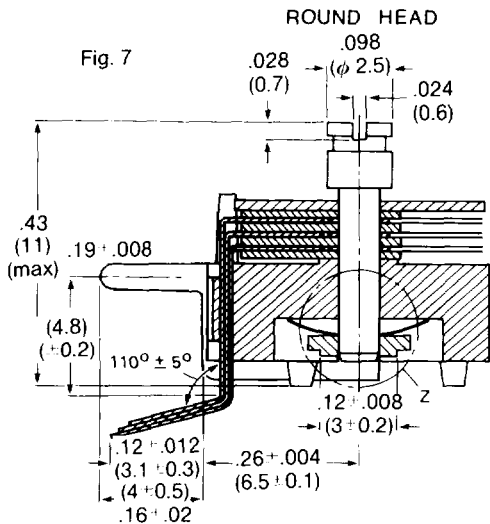
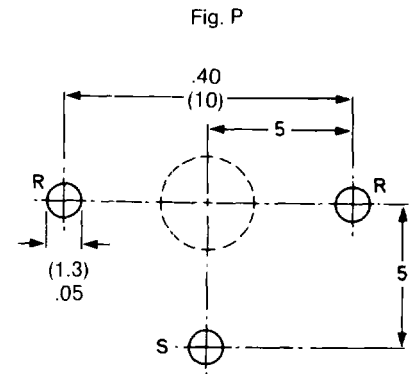
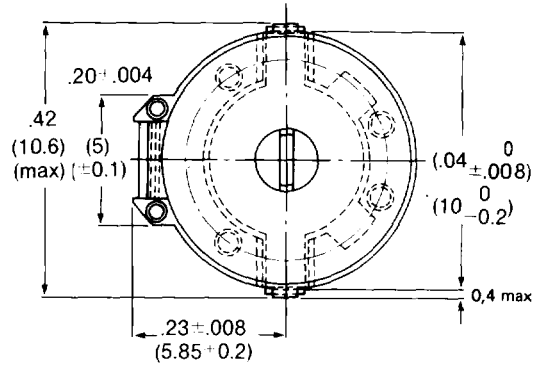
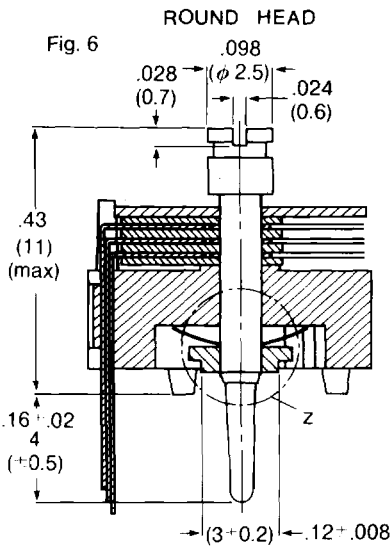
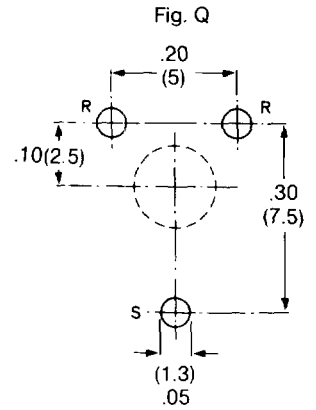
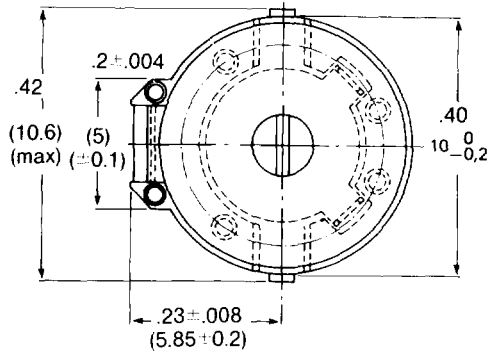
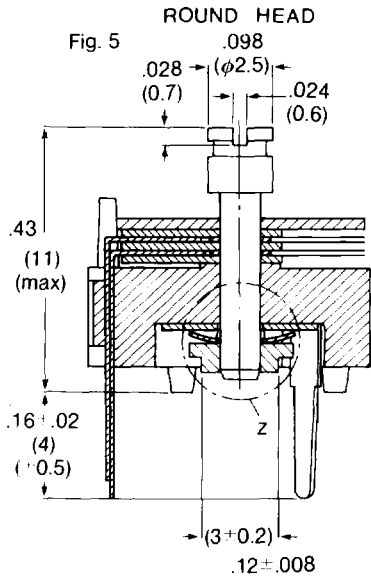
Fig. X



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Fig. 8

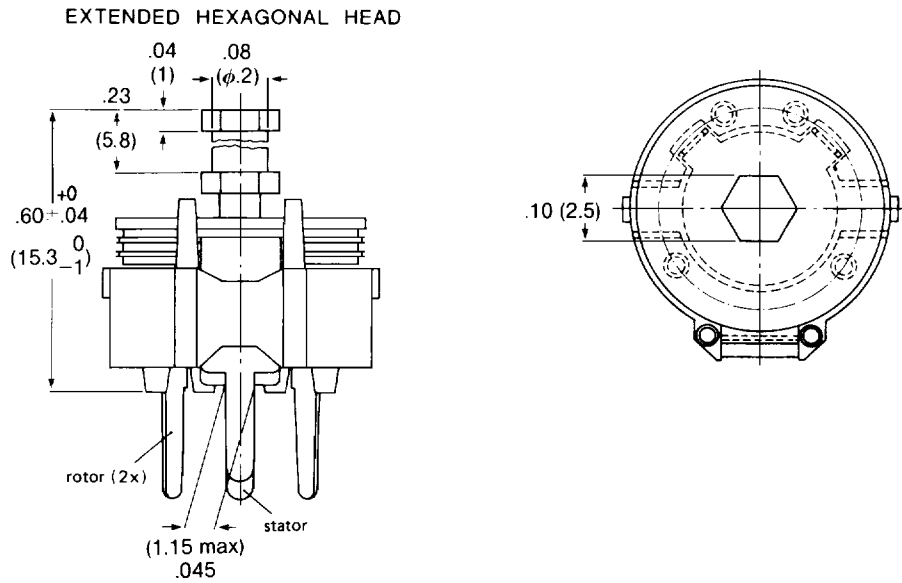


Fig. 9

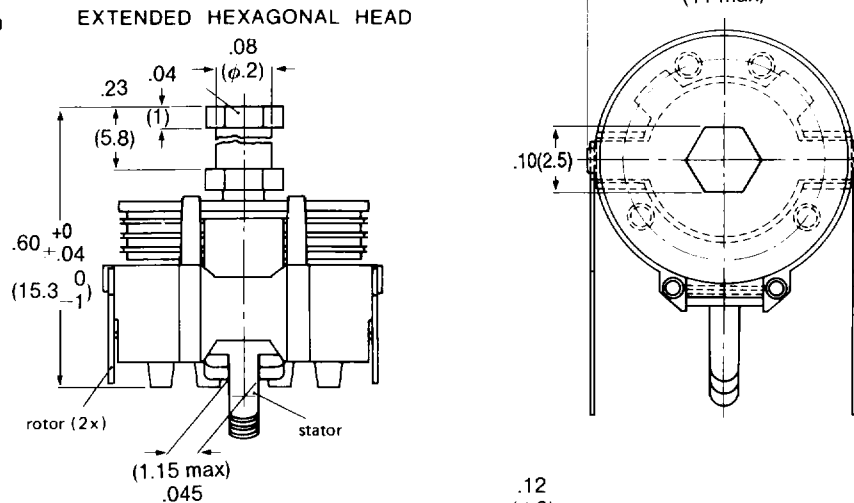
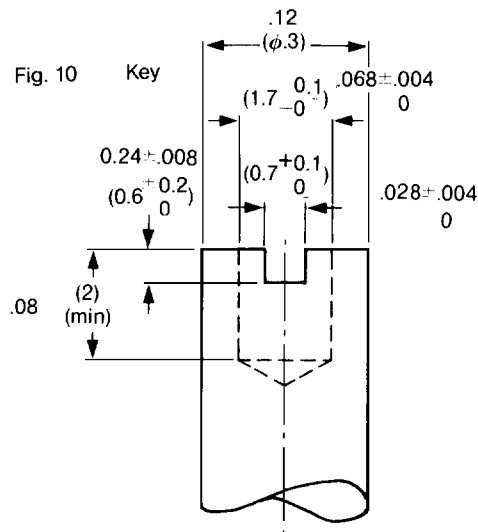


Fig. 10



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