COMPONENT NEWS

EVALUATION ENGINEERING **NOT TO BE DUPLICATED NOR CIRCULATED OUTSIDE OF TEKTRONIX, INC.**

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COMPILED BY PRODUCT RELIABILITY INFORMATION NO. 125 DATE 2-24-70

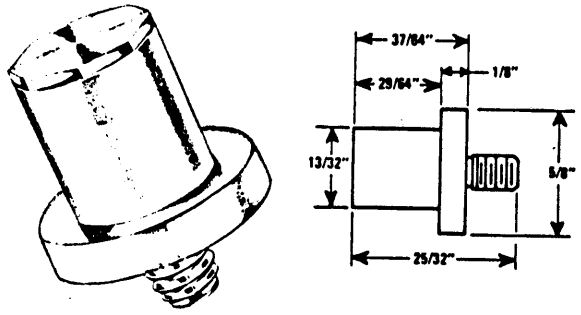
NEW SHOCK MOUNTS

UNITED CARR FASTENER CORP. has created a different type of vibration insulator (shock mount). The insulator looks like a "top hat" with a stud mount. The polyurethane elastomer insulator is captivated on the stud. Mounting takes a large hole (5/16" or 13/32) for the insulator and a smaller hole (#6 or #8 screw) for the stud. Mounting is simple. The insulator is pushed through the larger hole then mounted to the chassis through the smaller hole. One nut tightens the entire assembly. The stud is under-cut so that the tensioning is automatic – the nut cannot be over-tightened.

Tests run on these devices (as shock mounts) show a three to one reduction in transmitted vibration over the more familiar rubber shock mounts.

The insulators can be obtained in Durometer readings from 23 to 45, Shore A.

Cost of the devices is low (about 3¢ to 5¢ each).



For samples, contact me at Ext 417.

-Verne McAdams

HIGH CURRENT REPLACEMENT FOR REED RELAYS

For those applications of reed relays which need higher current carrying capabilities, *AMERICAN ZETTLER, INC.*, has introduced a compatible relay package.

The package is .415" high, .590" wide and 1.090" long on .1 grid pin layout, and is capable of handling 2 amp currents. It is a single pole double throw switch obtainable in 6 VDC to 115 VDC coils at 66Ω to 14,500Ω.

See additional specifications below.

ELECTRICAL SPECIFICATIONS

Contact Rating — noninductive load
Light Duty (Code 1): Fine silver goldplated
1 Amp @ 26 VDC or
0.5 Amp @ 115 VAC
Medium Duty (Code 2): Silver Cadmium-Oxide goldplated
2 Amp @ 26 VDC or
1 Amp @ 115 VAC

Life Expectancy — Mechanical Operations: 10^7
Operations at Rated Load: 10^6

Contact Resistance — 50 milliohms max. initially

Operate and Release Time — see curve

Contact Bounce — at 10 mA contact current:
2 ms max. at operate N. O. side
3 ms max. at release N. C. side

Capacity — typical: NC to Movable 0.6 pF
NO to Movable 0.9 pF
contact to coil 12 pF

Dielectric Strength — 500 Vrms across contact gap and contact to coil

Insulation Resistance — 10,000 Megohms min. @ 20° C, 100 VDC, 50% RH

Drop Out — 10% minimum of must operate voltage or current.

Coil Power — Pick UP typical: light duty contact 125 mW
medium duty contact 250 mW
Max. Continuous Dissipation: 1.6W
@ 20° C (68° F)
1.2W
@ 40° C (105° F)
Temperature Rise: approx. 55° C per Watt

Coil Temperature — Max. 105° C (220° F)

Ambient Temperature —
Operating: −55° C (−72° F) to 80°C (175° F)
@ nominal operating voltage
Storage: −55° C (−72° F) to 105°C (220° F)

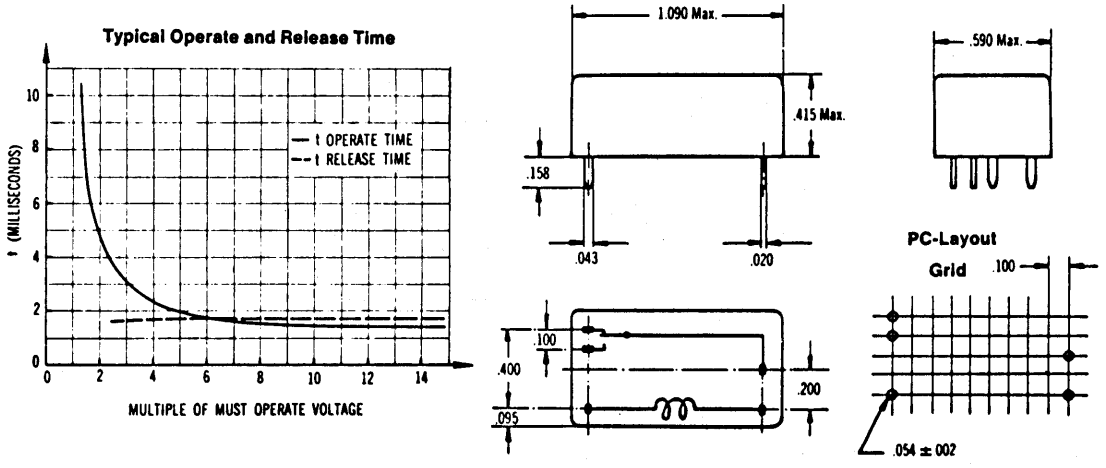
Vibration — 0.062 DA @ 10-55 Hz

Shock — 20 g

Enclosure — Clear plastic cover with mylar bottom plate

Terminals — Printed circuit board terminals goldplated in 0.10" standard grid space

Weight — Approx. 10 gr.



Price schedual ~~is $2.36 to $3.93 in 1~~ - 24 quantities, and as low as $1.59 to $2.64 in quantities of 500.

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-Verne McAdams