

PRODUCT	DESCRIPTION	PAGES
EL205 Series	2PDT, 5 AMP	2 - 7
EL210 / EL215 Series	2PDT, 10/15 AMP	8 - 13
EL410 / EL415 Series	4PDT, 10/15 AMP	14 - 18
EL210 / EL215 Track Mount Series	2PDT, 10/15 AMP	19 - 23
EL410 / EL415 Track Mount Series	4PDT, 10/15 AMP	24 - 26
EL325 Series	3PDT, 25 AMP	27 - 33
EDL2 Series	2PDBDT, 15 AMP	34 - 39



EL205

General characteristics

No. of poles	2 Form C (2PDT)
Volume	3.3 cm ³ [.2 in ³]
Mass	16.34 grams [.036 lb. Max]

Switching characteristics

Operate time @ 25° C (Latch and Reset)	4 ms max.
Bounce time	1 ms max.
Mechanical life	400,000 cycles

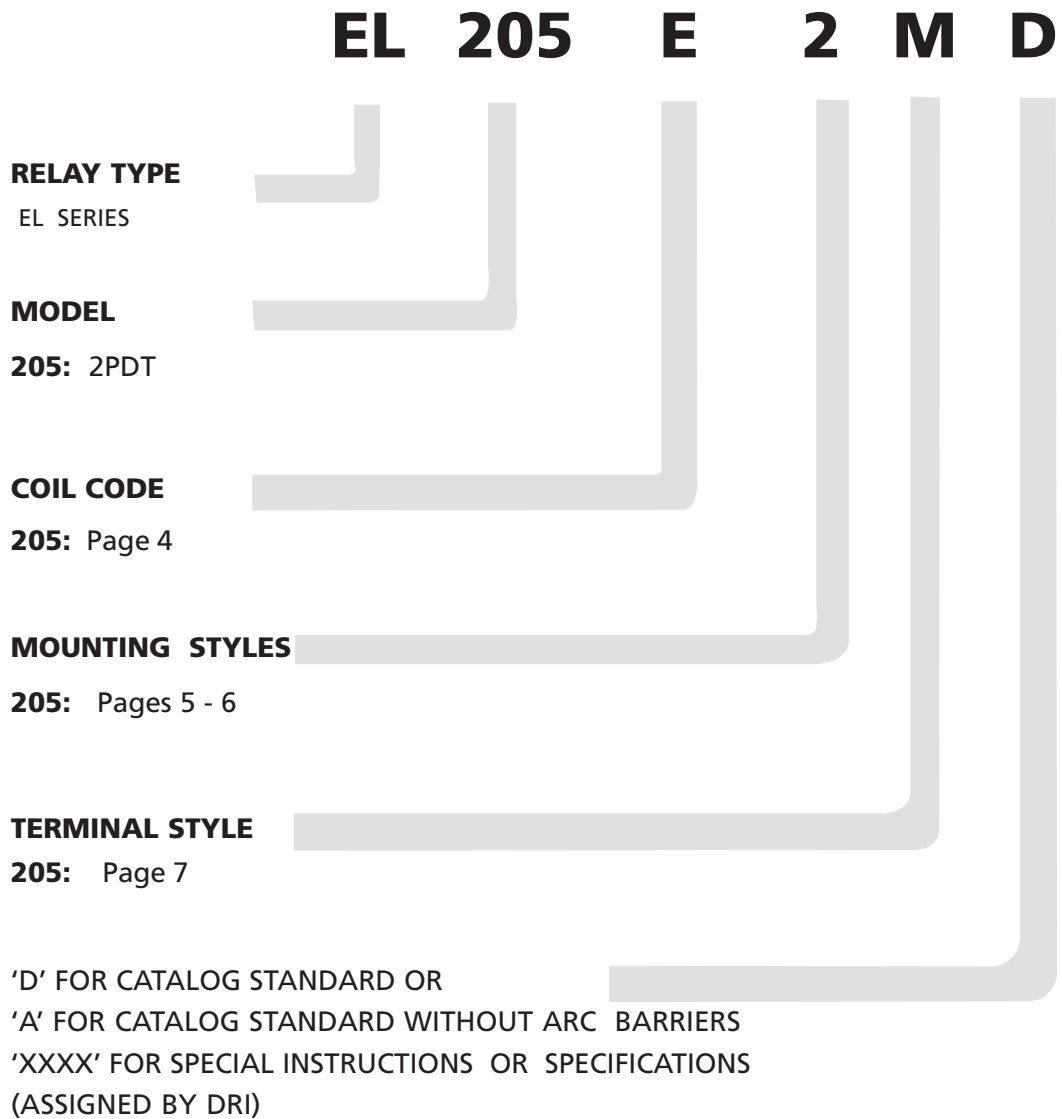
Contact rating	Type of load (High level)	Cycles x 10 ³	28 Vdc	115 Vac		115/200 Vac	
				400 Hz	1 phase	400 Hz	3 phase
Resistive		100	5 amps	5 amps		5 amps	
Inductive		20	3 amps	5 amps		5 amps	
Motor		100	2 amps	3 amps		3 amps	
Lamp		100	1 amps	n/a		n/a	
Overload current		n/a	20 amps	30 amps		30 amps	
Rupture current		n/a	25 amps	40 amps		40 amps	

Environmental characteristics

Temperature Range	-70°C to +125°C
Vibration (Sinusoidal)	30 g 70-3000 Hz
Shock, any axis	200 g 6 ms
Seal	Hermetic (1 x 10 ⁻⁸ atm cm ³ /s)

Electrical characteristics

Contact voltage drop (@ Rated resistive load)	
- Initial	150 mV Max.
- After guaranteed life	175 mV Max.
Dielectric strength @ sea level	
- Initial @ 60 Hz	Coil to Case 500 Vrms All other points 1000 Vrms
- After life test @ 60 Hz	350 Vrms 750 Vrms
Insulation Resistance	
- Initial	100 Megohms min. @ 500 Vdc
- After life tests	50 Megohms min. @ 500 Vdc
Reference Military Specifications	MIL-PRF-83536

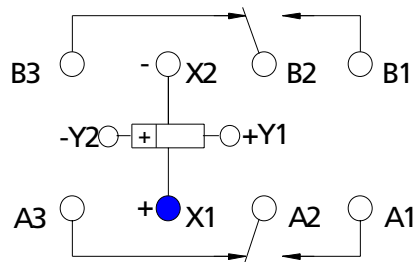


■ [Coil characteristics](#)

COIL CODE	D C
	E
N o m i n a l c o i l v o l t a g e	2 8
M a x i m u m l a t c h a n d r e s e t v o l t a g e a t 2 5 ° C	1 4 . 5
M a x i m u m l a t c h a n d r e s e t v o l t a g e a t 1 2 5 ° C	1 8
C o i l r e s i s t a n c e (o h m s ± 1 0 % a t 2 5 ° C)	7 3 0

OTHER VOLTAGES AVAILABLE FROM FACTORY ON REQUEST

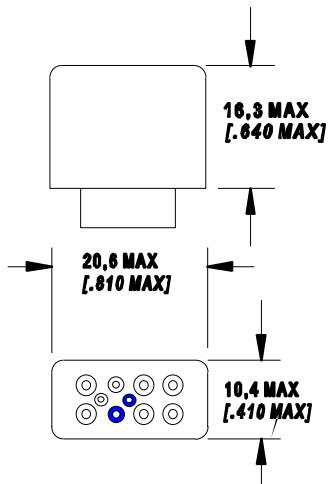
■ [Circuit diagram](#)



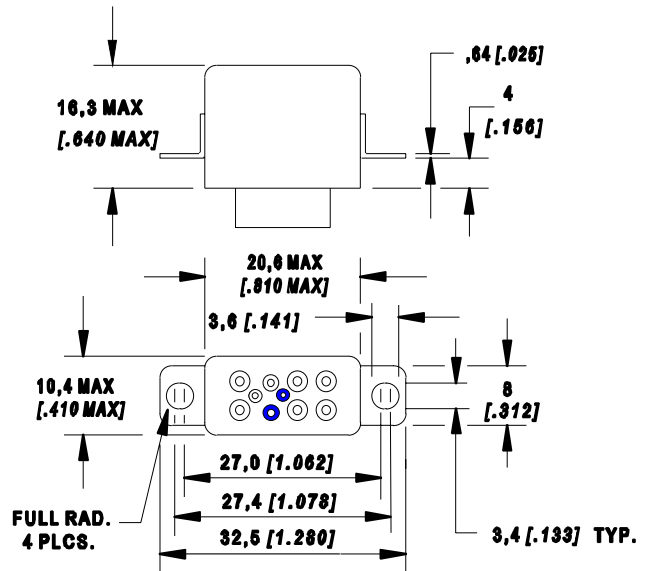
EL205
Y-COIL LAST ENERGIZED

■ Mounting styles

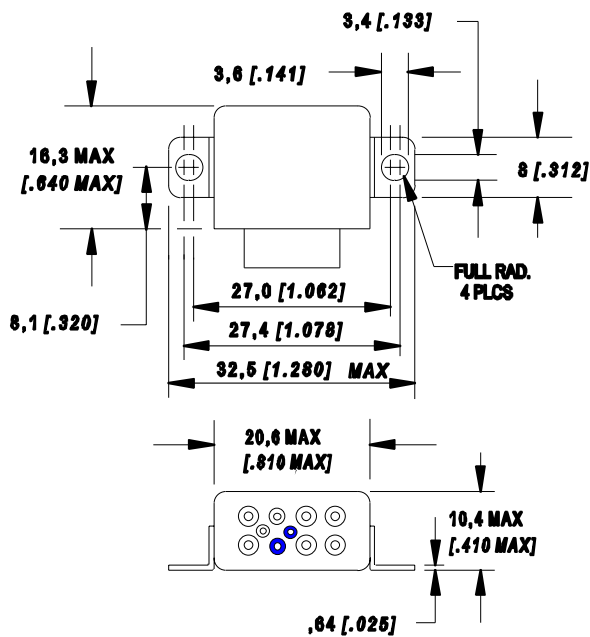
DIMENSIONS ARE IN M (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]



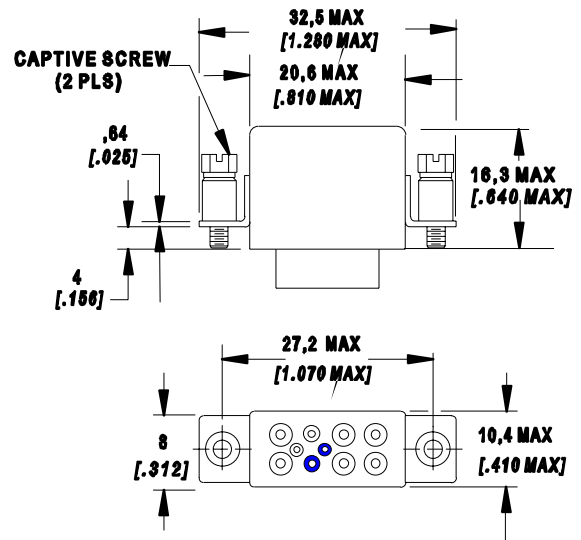
STYLE 1
NO MOUNT



STYLE 2
RAISED VERTICAL FLANGE MOUNT



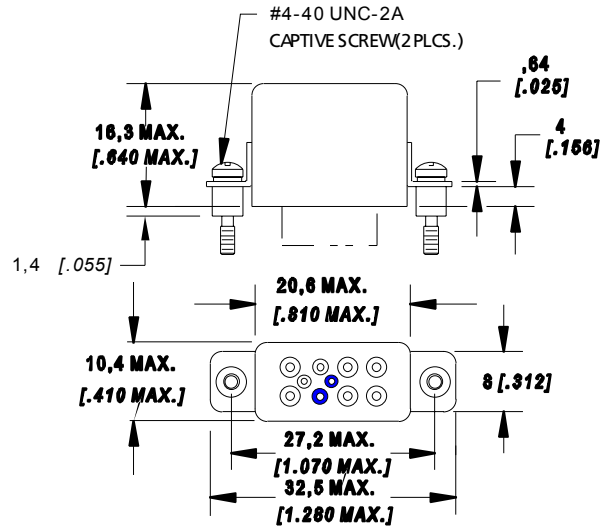
STYLE 3
HORIZONTAL FLANGE MOUNT



STYLE 8: M3 CAPTIVE SCREWS
STYLE C: #4-40 UNC CAPTIVE SCREWS
RAISED VERTICAL FLANGE MOUNT
WITH CAPTIVE HARDWARE

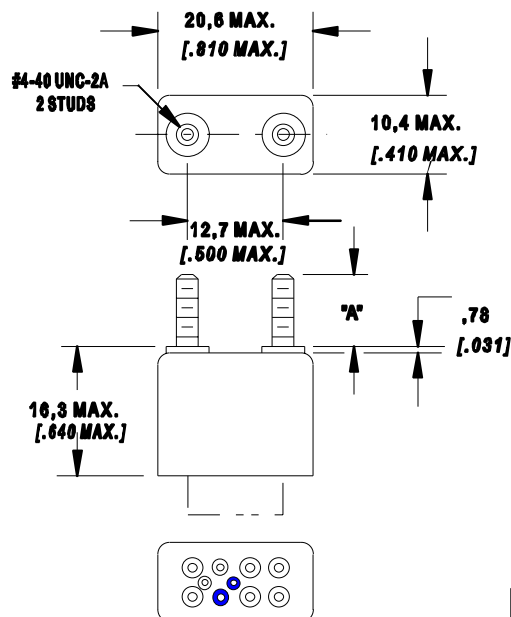
■ Mounting styles (cont.)

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]



STYLE G

RAISED VERTICAL FLANGE MOUNT
WITH CAPTIVE HARDWARE



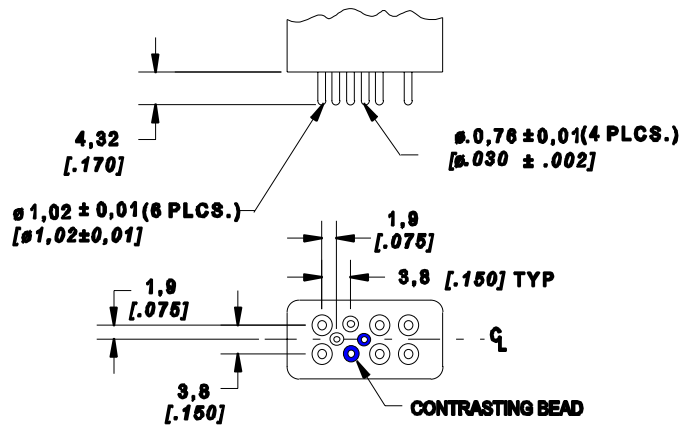
STYLE M & R

TOP STUD MOUNT

STYLE	DIM "A"
M	9,5 [.375]
R	6,35 [.250]

Termination styles

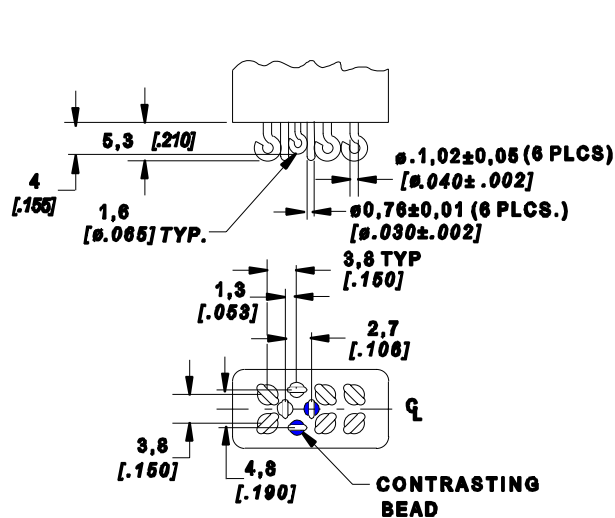
DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]



SOLDER PIN

STYLE A: TIN PLATED

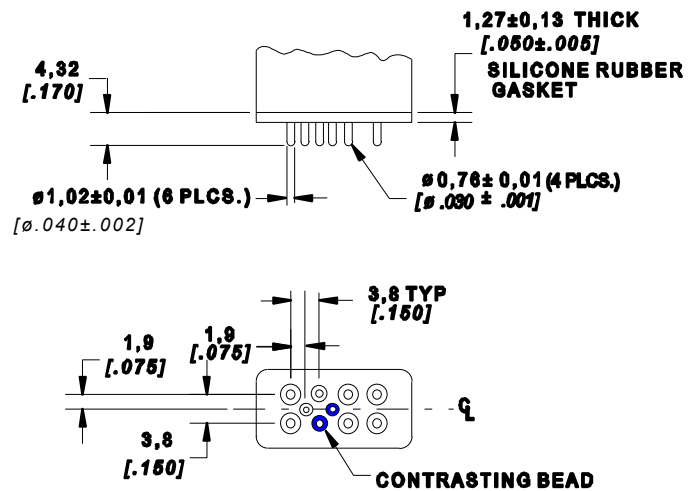
STYLE B: SOLDER DIPPED



SOLDER HOOK

STYLE H: TIN PLATED

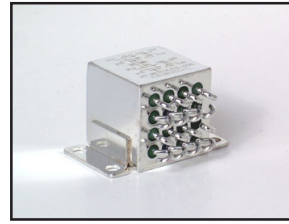
STYLE J: SOLDER DIPPED



PLUG IN

STYLE M: GOLD PLATED WITH TIN
PLATED POLARIZING PIN

Characteristics



General characteristics

	210/215	410/415
No. of poles	2 Form C (2 DPDT)	4 Form C (4PDT)
Volume	8.52 cm ³ [.52 in ³]	16.4 cm ³ [1.03 in ³]
Mass	40.9 grams [.09 lb. Max]	77 grams [.17 lb. Max]

Switching characteristics

Operate time @ 25° C (Latch and Reset) with DC Coil	10 ms max.	15 ms max.
Bounce time	1 ms max.	1 ms max.
Mechanical Life	400,000 cycles	

Contact rating	10 AMP * =10,000 CYCLES						
	Type of load (High level)	Cycles x 10 ³	28 Vdc	115 Vac 400 Hz 1 phase	115 Vac* 50/60 Hz 1 phase	115/200 Vac 400 Hz 3 phase	115/200 Vac* 50/60 Hz 3 phase
Resistive	100	10 amps	10 amps	2.5 amps	10 amps	2.5 amps	
Inductive	20	8 amps	8 amps	n/a	8 amps	n/a	
Inductive	10	n/a	n/a	2.5 amps	n/a	2.5 amps	
Motor	100	4 amps	4 amps	2 amp	4 amps	2 amps	
Lamp	100	2 amps	2 amps	1 amp	n/a	n/a	
Overload current	n/a	40 amps	60 amps	n/a	60 amps	n/a	
Rupture current	n/a	50 amps	80 amps	n/a	80 amps	n/a	

Contact rating	15 AMP * =10,000 CYCLES						
	Type of load (High level)	Cycles x 10 ³	28 Vdc	115 Vac 400 Hz 1 phase	115 Vac* 50/60 Hz 1 phase	115/200 Vac 400 Hz 3 phase	115/200 Vac* 50/60 Hz 3 phase
Resistive	100	15 amps	15 amps	3.75 amps	15 amps	3.75 amps	
Inductive	20	10 amps	10 amps	n/a	10 amps	n/a	
Inductive	10	n/a	n/a	3.75 amps	n/a	3.75 amps	
Motor	100	6 amps	6 amps	3 amp	6 amps	3 amps	
Lamp	100	3 amps	3 amps	1.5 amps	n/a	n/a	
Overload current	n/a	40 amps	60 amps	n/a	60 amps	n/a	
Rupture current	n/a	50 amps	80 amps	n/a	80 amps	n/a	

Environmental characteristics

Temperature Range	-70°C to +125°C
Vibration, any axis (Sinusoidal)	30 g 10-3000 Hz
Shock, any axis	200 g 6 ms
Seal	Hermetic (1 x 10 ⁻⁸ atm cm ³ /s)

Electrical characteristics

Contact voltage drop (@ Rated resistive load)	150 mV Max.
- Initial	175 mV Max.
- After guaranteed life	
Dielectric strength @ sea level	Coil to Case All other points
- Initial @ 60 Hz	1000 Vrms 1250 Vrms
- After guaranteed life	1000 Vrms 1000 Vrms
Insulation Resistance	
- Initial	100 Megohms min. @ 500 Vdc
- After life tests	50 Megohms min. @ 500 Vdc
Reference Military Specifications	MIL-PRF-83536

EL S 2 10 E 2 K D

RELAY TYPE

EL SERIES (LATCHING)

OPTION

S: Internal Voltage Suppressor

R: Internal Voltage Suppressor

MODEL

2: 2PDT See page 8, 10-13

4: 4PDT See page 8, 14-18

RELAY AMPS

10: 10 AMPS

15: 15 AMPS

COIL CODE

2: PDT PAGE 10

4: PDT PAGE 14

MOUNTING STYLES

2: PDT page 11 - 12

4: PDT page 15 - 17

TERMINAL STYLE AND FINISH

2: PDT page 13

4: PDT page 18

'D' FOR CATALOG STANDARD OR

'A' FOR CATALOG STANDARD WITHOUT ARC BARRIERS

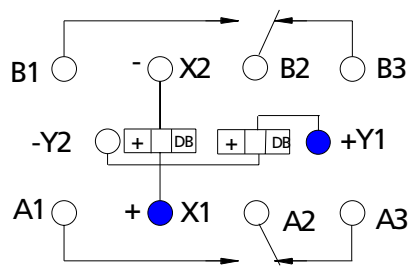
'XXXX' FOR SPECIAL INSTRUCTIONS OR SPECIFICATIONS

(ASSIGNED BY DRI)

Coil characteristics

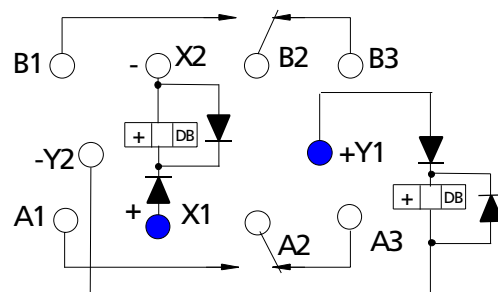
COIL CODE	DC						
	A	B	D	E	F	G	J
Nominal coil voltage	6	12	26,5	28	28	48	110
Maximum latch and reset voltage at 25°C	3	6	13,5	14	14,5	24	55
Maximum latch and reset voltage at 125°C	4,5	9	18	18,7	18,0	36	70
Coil resistance (ohms ± 10% at 25° C)	15	60	280	300	450	1000	5000
Max coil transient suppression	See	circuit	diagram	below	100	180	

Circuit diagram



Y-COIL LAST ENERGIZED

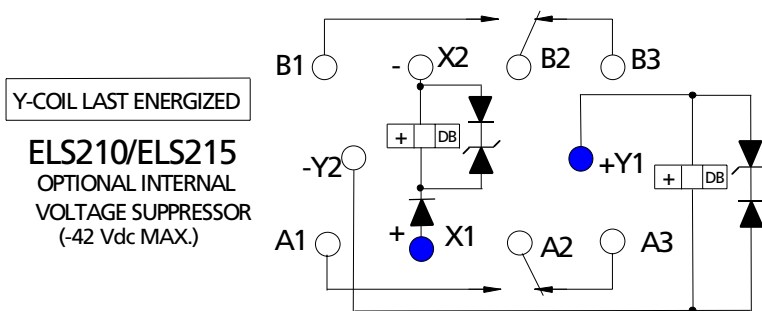
EL210/EL215



Y-COIL LAST ENERGIZED

ELR210/ELR215

OPTIONAL INTERNAL VOLTAGE SUPPRESSOR
PER M83536/13
(-5 VDC MAX.)



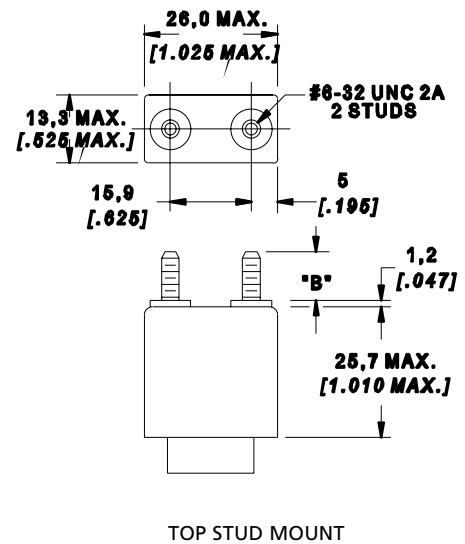
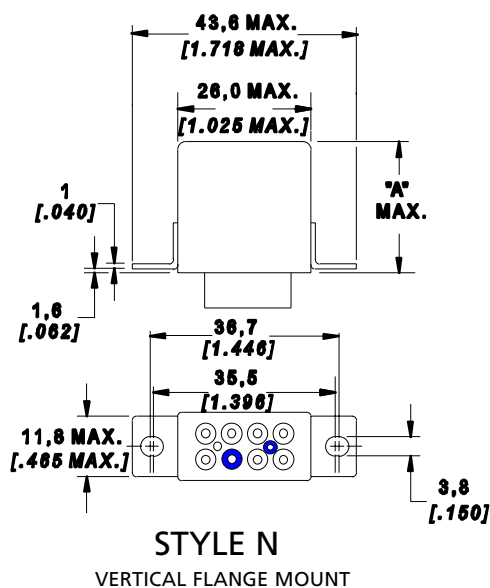
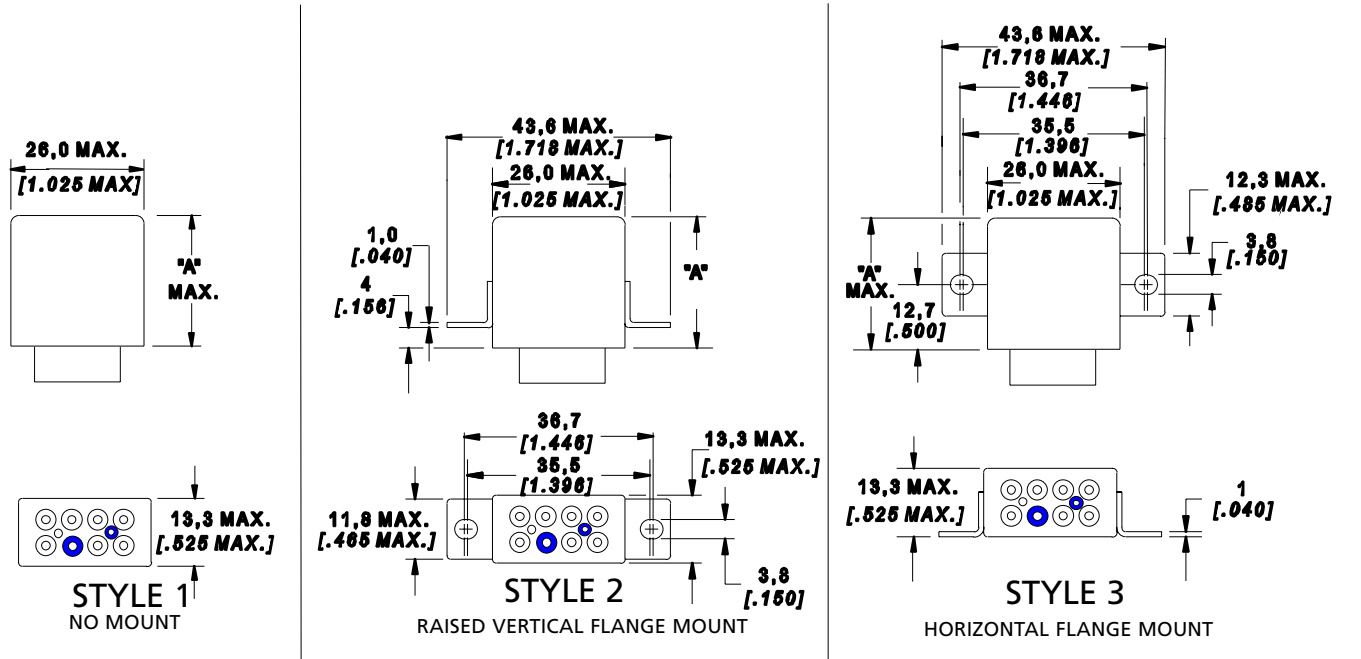
Y-COIL LAST ENERGIZED

ELS210/ELS215
OPTIONAL INTERNAL
VOLTAGE SUPPRESSOR
(-42 Vdc MAX.)

Mounting styles

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]

"A" DIMENSION:
SUPPRESSED: 28,6 [1.125]
NON-SUPPRESSED: 25,7 [1.010]
AC: 28,6 [1.125]



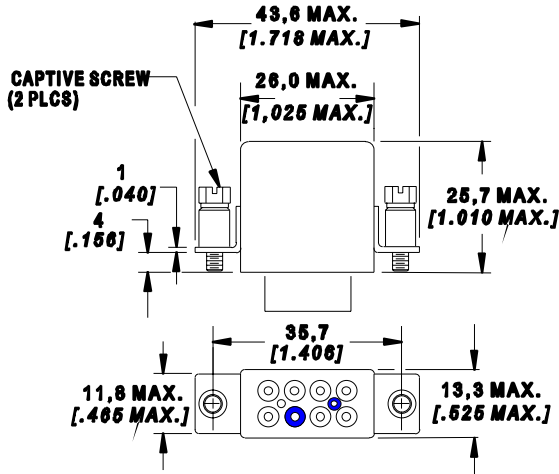
STYLE	DIM "B"
M	9,5 [.375]
R	6,35 [.250]

EL210 / EL215 Technical Characteristics

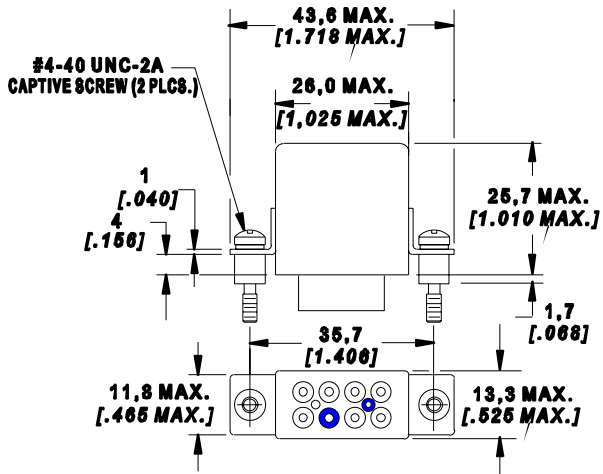


Mounting styles

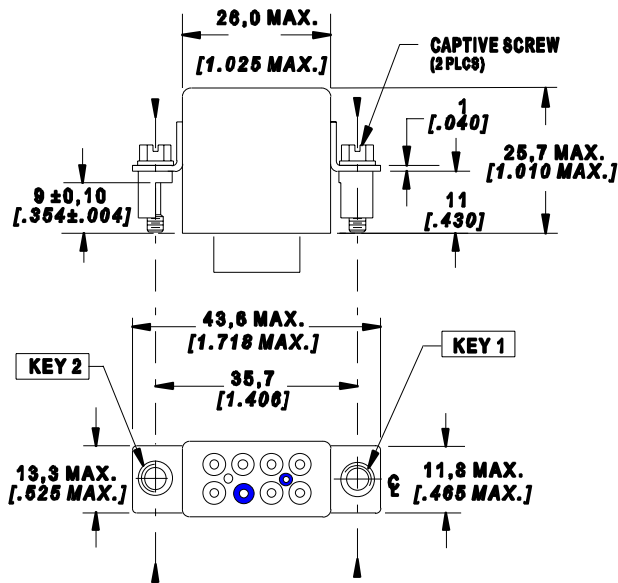
DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]



STYLE 8: M3 CAPTIVE SCREWS
STYLE C: #4-40 UNC CAPTIVE SCREWS
RAISED VERTICAL FLANGE MOUNT
WITH CAPTIVE HARDWARE



STYLE G
RAISED VERTICAL FLANGE MOUNT
WITH CAPTIVE HARDWARE



KEYING SYSTEM WITH CAPTIVE HARDWARE

STYLE A: M3 CAPTIVE SCREWS
STYLE B: #4-40 UNC CAPTIVE SCREWS

KEYING CONFIGURATION SHOWN IN TABLE COMES STANDARD WITH SPECIFIED COIL VOLTAGE. FOR ORDERING OTHER KEYING POSITIONS USE 2 DIGIT (XX)
"SPECIAL INSTRUCTIONS" ON END OF P/N.
EX: EL210AACVY

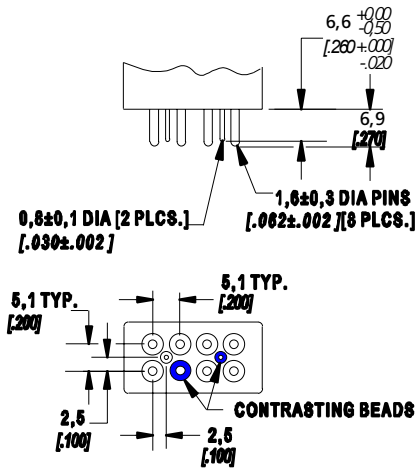
KEYING POSITIONS

U	V	W	X	Y	Z
0°	60°	120°	180°	240°	300°

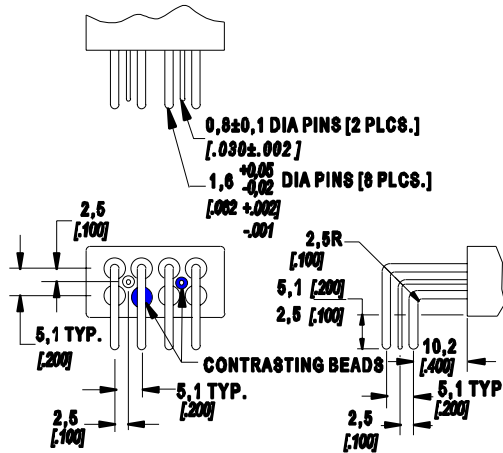
COIL	KEY 1	KEY 2	SUPPRESSED	
			KEY 1	KEY 2
6 VDC	V	V	V	X
12 VDC	X	V	X	X
26.5 VDC	Y	Z	U	Z
28 VDC	V	Z	X	Z
48 VDC	V	U	V	W
110 VDC	X	U	X	W

Termination styles

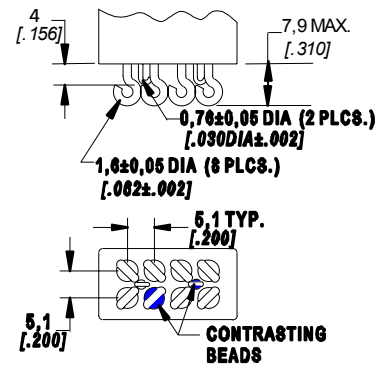
DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]



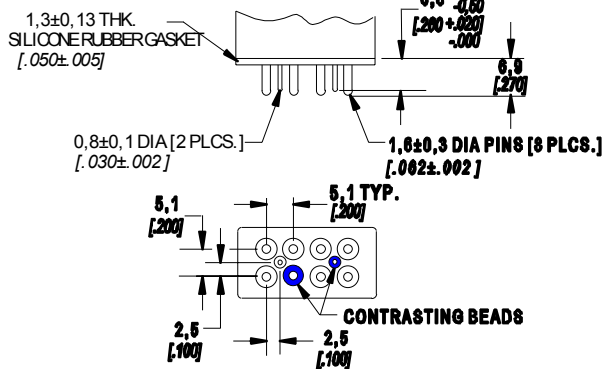
SOLDER PIN
STYLE A: TIN PLATED
STYLE B: SOLDER DIPPED



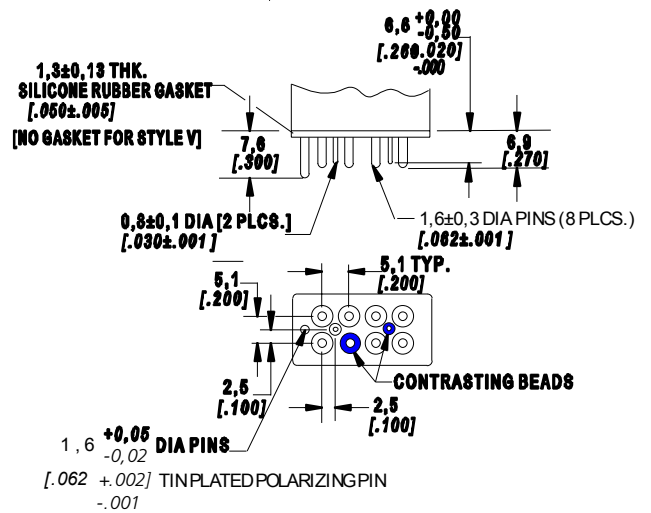
90° SOLDER PIN
STYLE D: TIN PLATED
STYLE E: SOLDER DIPPED



SOLDER HOOK
STYLE H: TIN PLATED
STYLE J: SOLDER DIPPED



PLUG IN
STYLE K: GOLD PLATED



PLUG IN
STYLE M: GOLD PLATED

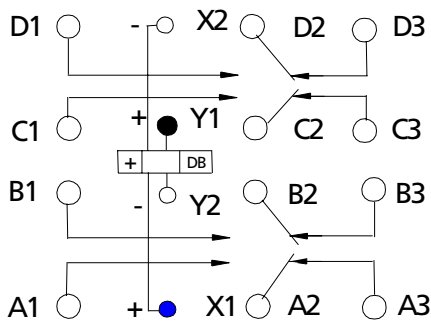
SOLDER PIN
STYLE V: TIN PLATED

Coil characteristics

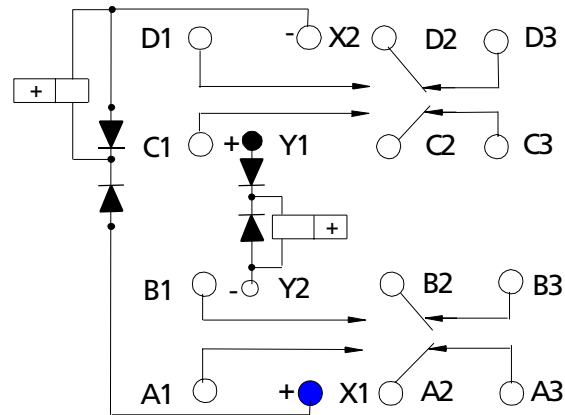
COIL CODE	DC						
	A	B	D	E	F	G	J
Nominal coil voltage	6	12	26,5	28	28	48	110
Maximum latch and reset voltage at 25°C	3,5	6,5	13,5	14,5	14,5	24	55
Maximum latch and reset voltage at 125°C	4,5	9	18	18,7	18,0	36	70
Coil resistance (ohms ± 10% at 25° C)	15	60	280	300	450	1000	5000
Max coil transient suppression	See circuit diagram below					100	180

OTHER VOLTAGES AVAILABLE FROM FACTORY ON REQUEST

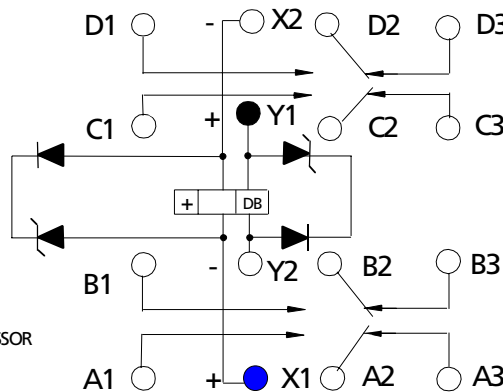
Circuit diagram



EL410/EL415
OBSERVE COIL POLARITY
Y1 COIL LAST ENERGIZED



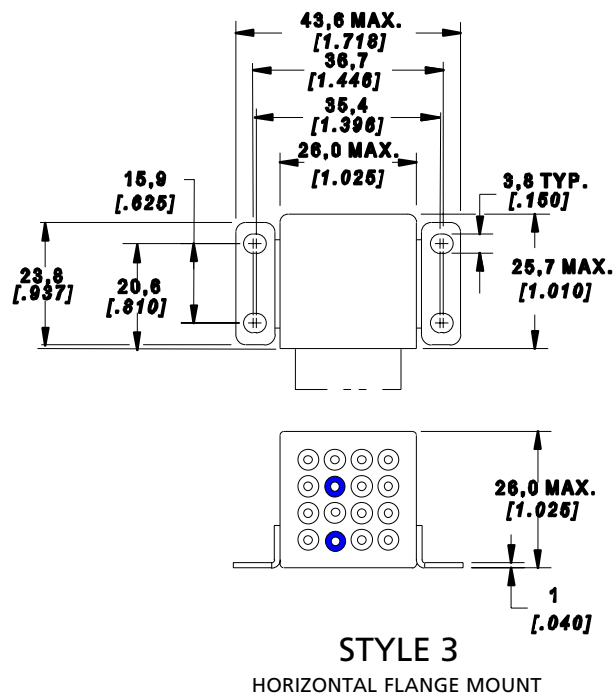
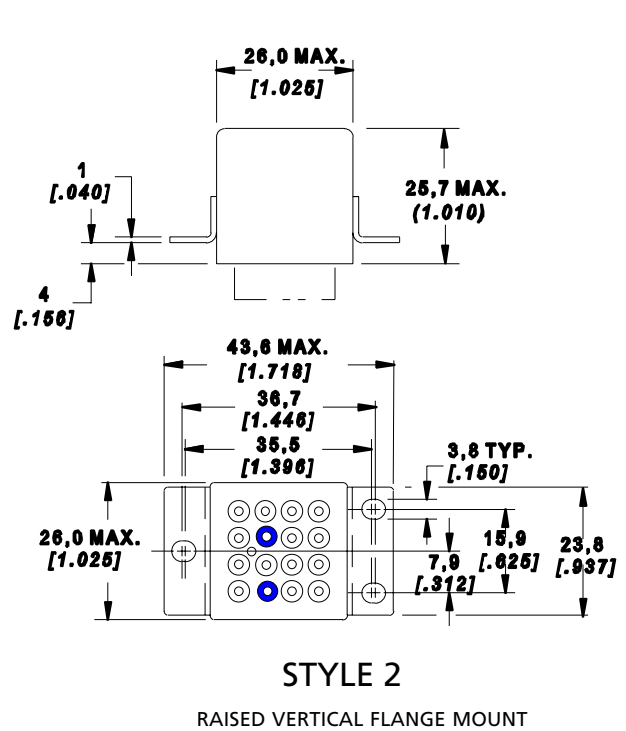
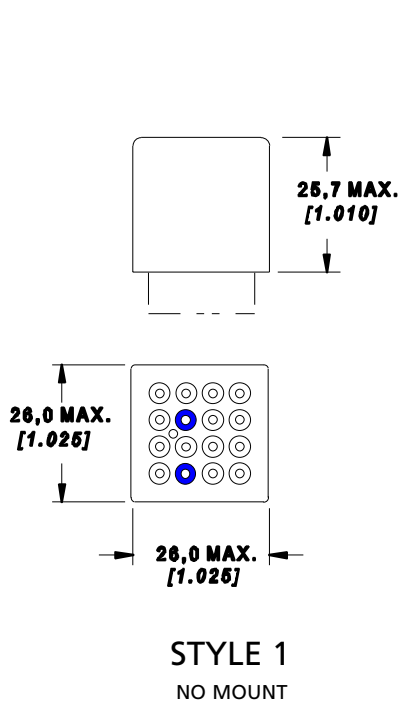
ELR410/ERL415
OPTIONAL INTERNAL
VOLTAGE SUPPRESSOR
Y1 COIL LAST ENERGIZED
PER M83536/19
(-5 Vdc MAX.)



ELS410/ELS415
OPTIONAL INTERNAL VOLTAGE SUPPRESSOR
Y1 COIL LAST ENERGIZED
(-42 Vdc MAX.)

Mounting styles

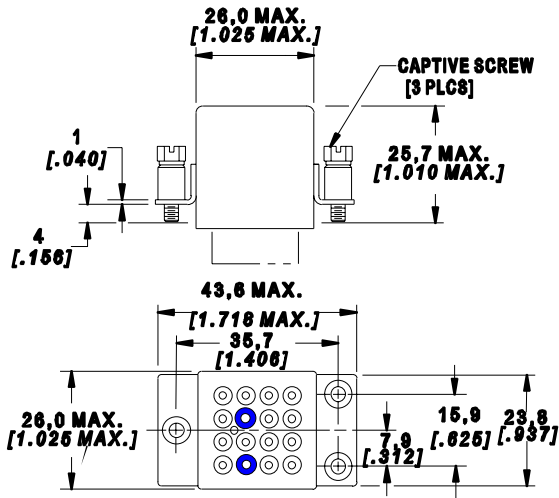
DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ (.010)



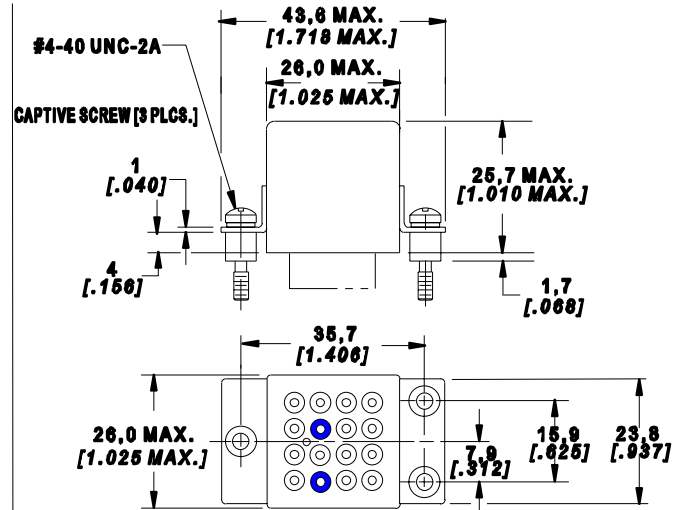
EL410 / EL415 Technical Characteristics

■ Mounting styles

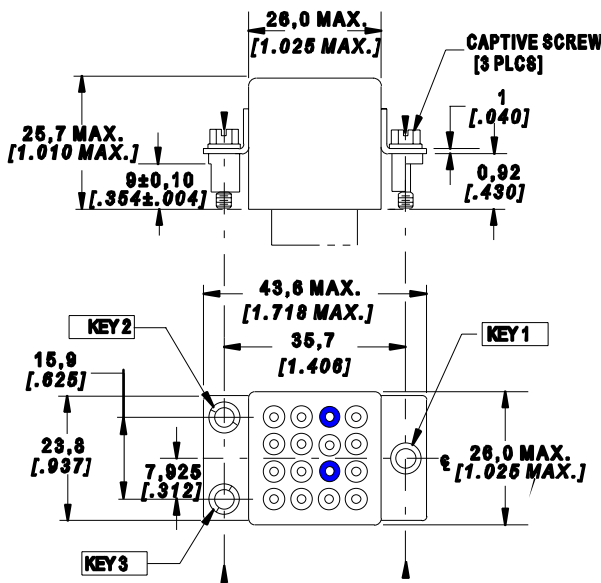
DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ (.010)



STYLE 8: M3 CAPTIVE SCREWS
STYLE C: #4-40 UNC CAPTIVE SCREWS
RAISED VERTICAL FLANGE MOUNT
WITH CAPTIVE HARDWARE



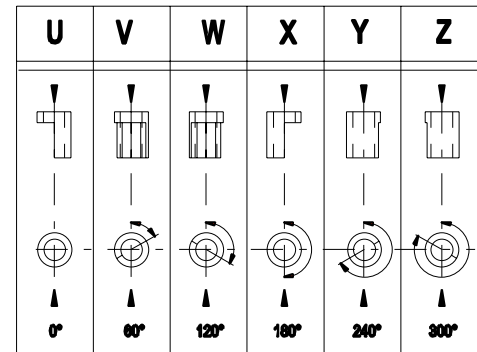
STYLE G
RAISED VERTICAL FLANGE MOUNT
WITH CAPTIVE HARDWARE



KEYING SYSTEM WITH CAPTIVE HARDWARE

STYLE A: M3 CAPTIVE SCREWS
STYLE B: #4-40 UNC CAPTIVE SCREWS

KEYING POSITIONS

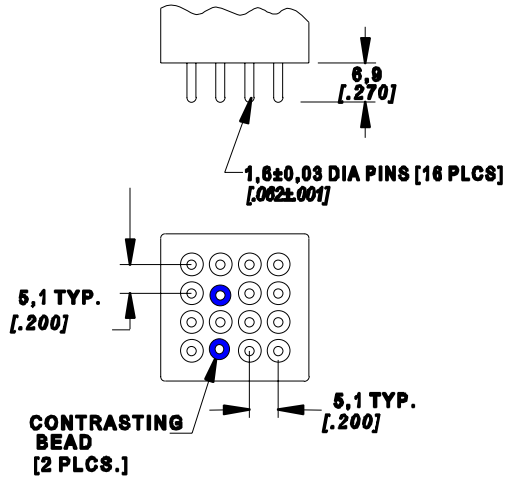


COIL	SUPPRESSED					
	KEY 1	KEY 2	KEY 3	KEY 1	KEY 2	KEY 3
6 VDC	V	Z	V	V	Z	X
12 VDC	X	Z	V	X	Z	X
26.5 VDC	Z	X	U	Z	X	W
28 VDC	Z	X	V	Z	X	Y
48 VDC	V	Z	U	V	Z	W
110 VDC	X	Z	U	X	Z	W

KEYING CONFIGURATION SHOWN IN TABLE COMES STANDARD WITH SPECIFIED COIL VOLTAGE. FOR ORDERING OTHER KEYING POSITIONS USE 3 DIGIT (XXX) "SPECIAL INSTRUCTIONS" ON END OF P/N.
EX: EL410AACXYZ

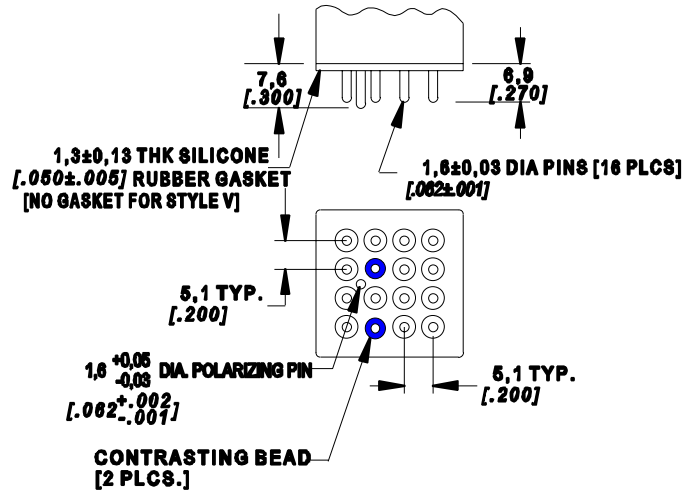
■ Termination styles

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]



SOLDER PIN

STYLE A: TIN PLATED
STYLE B: SOLDER DIPPED

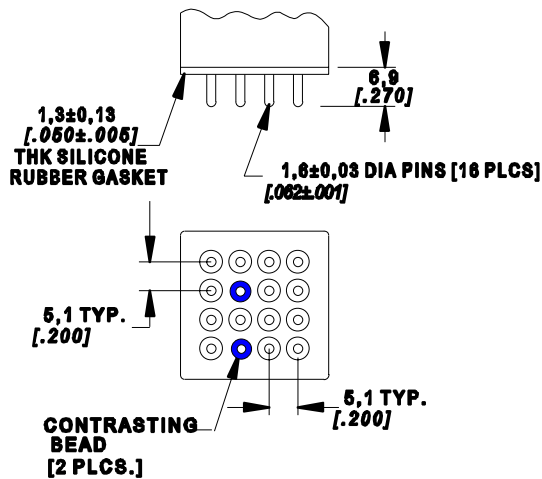


SOLDER PIN

STYLE V: TIN PLATED WITH TIN PLATED POLARIZING PIN

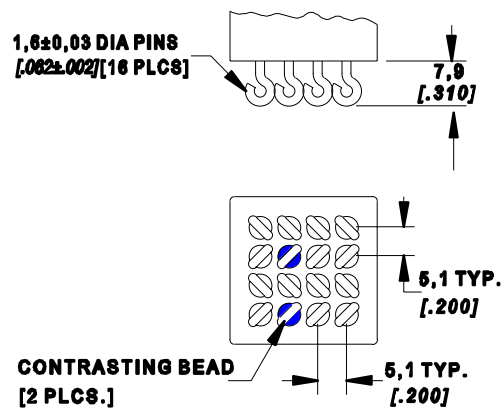
PLUG IN

STYLE M: GOLD PLATED WITH TIN PLATED POLARIZING PIN



PLUG IN

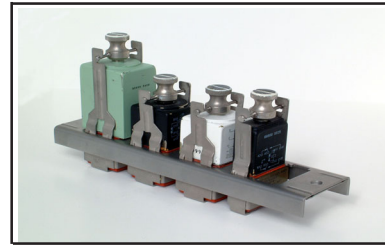
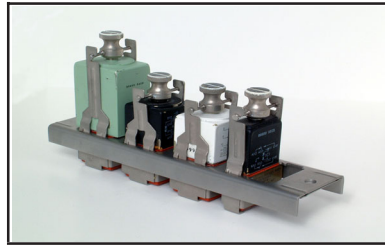
STYLE C: GOLD PLATED



SOLDER HOOK

STYLE H: TIN PLATED
STYLE J: SOLDER DIPPED

10 / 15 Amp Track Mount Characteristics



General characteristics

No. of poles	EL210/EL215 2 Form C (2 PDT)	EL410/EL415 4 Form C (4PDT)
Mass	54.5 grams [<i>.120 lb. Max</i>]	90.6 grams [<i>.20 lb. Max</i>]

Switching characteristics

Operate time @ 25 (Latch and Reset)	15 ms max.	20 ms max.
Bounce time	1 ms max.	1 ms max.

Mechanical Life 400,000 cycles

Contact rating	Type of load (High level)	Cycles x 10 ³	28 Vdc	115 Vac	115 Vac*	115/200 Vac	115/200 Vac*	10 AMP * = 10,000 CYCLES
				400 Hz 1 phase	50/60 Hz 1 phase	400 Hz 3 phase	50/60 Hz 3 phase	
	Resistive	100	10 amps	10 amps	2.5 amps	10 amps	2.5 amps	
	Inductive	20	8 amps	8 amps	n/a	8 amps	n/a	
	Inductive	10	n/a	n/a	2.5 amps	n/a	2.5 amps	
	Motor	100	4 amps	4 amps	2 amp	4 amps	2 amps	
	Lamp	100	2 amps	2 amps	1 amp	n/a	n/a	
	Overload current	n/a	40 amps	60 amps	n/a	60 amps	n/a	
	Rupture current	n/a	50 amps	80 amps	n/a	80 amps	n/a	

Contact rating	Type of load (High level)	Cycles x 10 ³	28 Vdc	115 Vac	115 Vac*	115/200 Vac	115/200 Vac*	15 AMP * = 10,000 CYCLES
				400 Hz 1 phase	50/60 Hz 1 phase	400 Hz 3 phase	50/60 Hz 3 phase	
	Resistive	100	15 amps	15 amps	3.75 amps	15 amps	3.75 amps	
	Inductive	20	10 amps	10 amps	n/a	10 amps	n/a	
	Inductive	10	n/a	n/a	3.75 amps	n/a	3.75 amps	
	Motor	100	6 amps	6 amps	3 amp	6 amps	3 amps	
	Lamp	100	3 amps	3 amps	1.5 amps	n/a	n/a	
	Overload current	n/a	40 amps	60 amps	n/a	60 amps	n/a	
	Rupture current	n/a	50 amps	80 amps	n/a	80 amps	n/a	

Environmental characteristics

Temperature Range	-70°C to +125°C
Vibration (Sinusoidal)	30 g 10-3000 Hz
Shock, any axis	200 g 6 ms
Seal	Hermetic (1 x 10 ⁻⁸ atm cm ³ /s)

Electrical characteristics

Contact voltage drop (@ Rated resistive load)	
- Initial	150 mV Max.
- After guaranteed life	175 mV Max.
Dielectric strength @ sea level	Coil to Case All other points
- Initial @ 60 Hz	1050 Vrms 1500 Vrms
- After guaranteed life	1050 Vrms 1250 Vrms
Insulation Resistance	
- Initial	100 Megohms min. @ 500 Vdc
- After life tests	100 Megohms min. @ 500 Vdc
- Max. leakage current	100 Microamp RMS.
Reference Military Specification	MIL-PRF-83536

EL S 2 10 E 4 M D

RELAY TYPE

EL: Latching

OPTIONAL

S: Internal Voltage Suppressor

MODEL

205: 2PDT See page 19,21-23

405: 4PDT See page 19, 24-26

RELAY AMPS

10: 10 AMPS

15: 15 AMPS

COIL CODE

2PDT: SEE PAGE 21

4PDT: SEE PAGE 24

MOUNTING STYLES

2PDT: SEE PAGE 22-23

4PDT: SEE PAGE 25-26

TERMINATION STYLES

2PDT: SEE PAGE 22-23

4PDT: SEE PAGE 25-26

'D' FOR CATALOG STANDARD OR

'A' FOR CATALOG STANDARD WITHOUT ARC BARRIERS

'XXXX' FOR SPECIAL INSTRUCTIONS OR SPECIFICATIONS

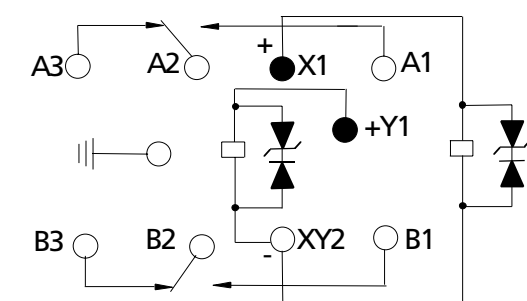
(ASSIGNED BY DRI)

Coil characteristics

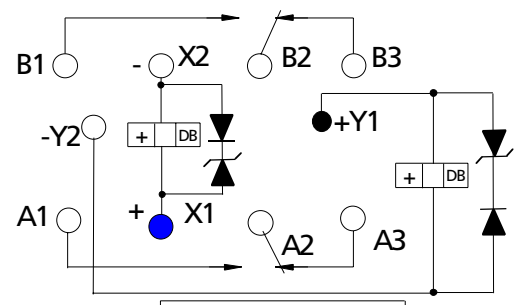
COIL CODE	DC					
	A	B	D	E	G	J
Nominal coil voltage	6	12	26,5	28	48	110
Maximum pick up voltage at 25°C	3	6	13.5	14	24	55
Maximum pick up voltage at 125°C	3,9	7,7	18	18,7	31	70
Minimum drop out voltage at -70° C	2	5	1,2	1,5	2	5
Coil resistance (ohms ±10% at 25°C)	15	60	280	300	1000	5000
Maximum coil transient suppression (where applicable) VDC	See	circuit	diagram	below	100	180

OTHER VOLTAGES AVAILABLE FROM FACTORY ON REQUEST

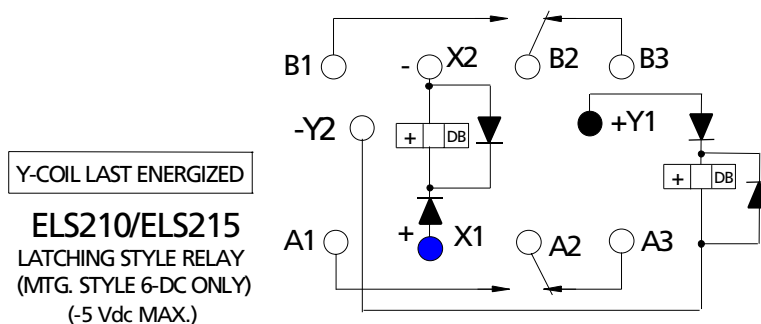
Circuit diagram



ELS210
LATCHING STYLE RELAY (MTG. STYLE 4-DC ONLY)
Y-COIL LAST ENERGIZED (-42 Vdc MAX.)



ELS210/ELS215
LATCHING STYLE RELAY (MTG. STYLE 6-DC ONLY)
OPTIONAL INTERNAL VOLTAGE SUPPRESSOR
(-42 Vdc MAX.)

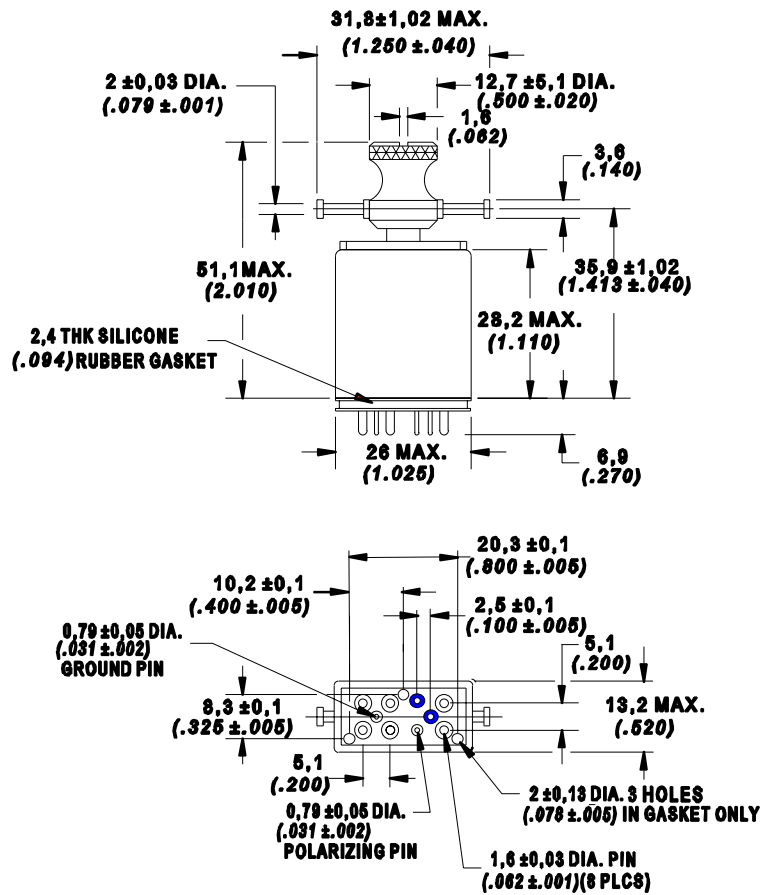


ELS210/ELS215
LATCHING STYLE RELAY
(MTG. STYLE 6-DC ONLY)
(-5 Vdc MAX.)

Mounting & Terminal Styles

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± 0.25 (.010)

THESE TRACK MOUNT RELAYS TO BE USED WITH BRACKET ASSY AND TRACKS MEETING THE REQUIREMENTS OF MIL-PRF-12883. SEE MIL-PRF-12883/50 FOR SOCKET INFORMATION AND MIL-PRF-12883/49 FOR TRACK INFORMATION



MOUNTING STYLE: 4

TERMINAL STYLE: M

[GOLD PLATED HEADER & TERMINALS

Mounting & Terminal Styles

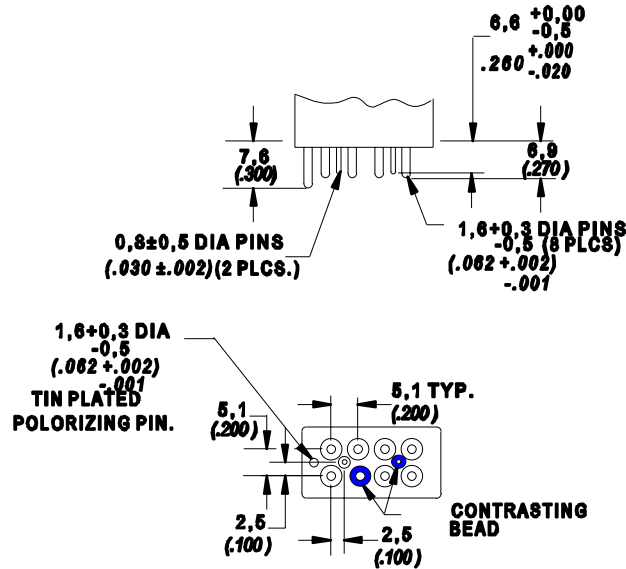
DIMENSIONS IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± 0.25 (.010)

MOUNTING STYLE: 6

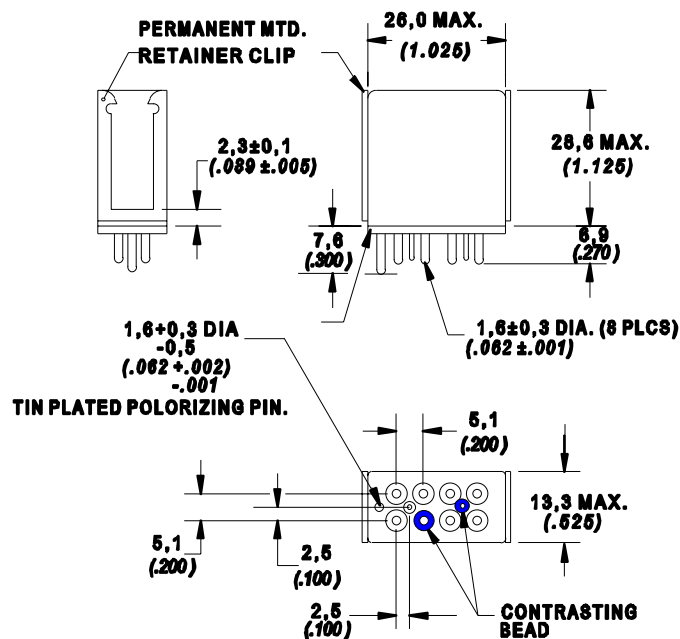
TERMINAL STYLE: M GOLD PLATED TERMINALS WITH TIN PLATED POLARIZING PIN

V TIN PLATED TERMINALS WITH TIN PLATED POLARIZING PIN

STYLE V : SOLDER PIN



STYLE M : PLUG IN

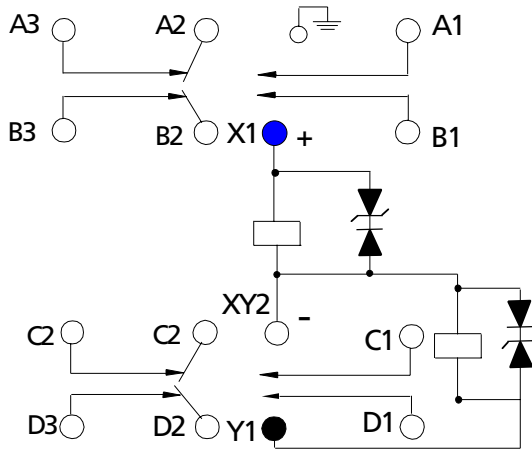


Coil Characteristics

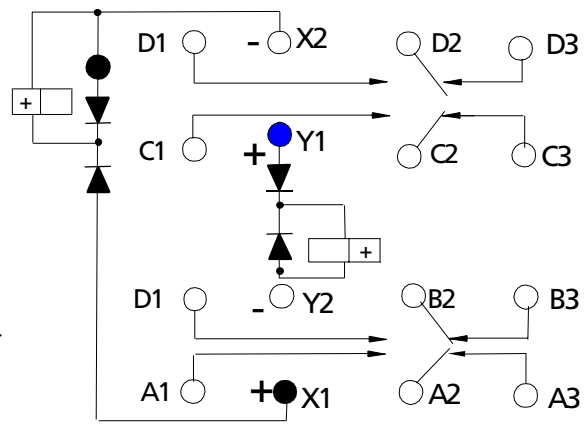
COIL CODE	DC					
	A	B	D	E	G	J
Nominal coil voltage	6	12	26,5	28	48	110
Maximum pick up voltage at 25°C	3	6	13.5	14	24	55
Maximum pick up voltage at 125°C	3,9	7,7	18	18,7	31	70
Minimum drop out voltage at -70° C	2	5	1,2	1,5	2	5
Coil resistance (ohms ±10% at 25°C)	15	60	280	300	1000	5000
Maximum coil transient suppression (where applicable)VDC	See	circuit	diagram	below	100	180

OTHER VOLTAGES AVAILABLE FROM FACTORY ON REQUEST

Circuit Diagram

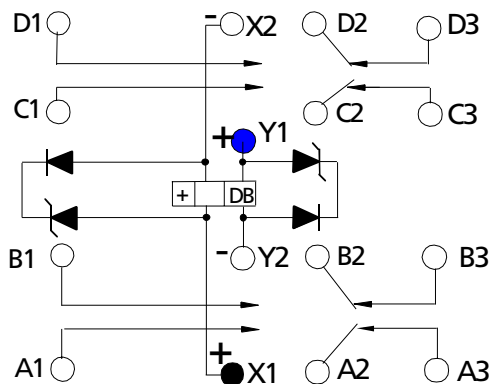


ELS410
LATCHING STYLE RELAY(MTG. STYLE 4-DC ONLY)
Y-COIL LAST ENERGIZED
(-42 Vdc MAX.)



ELR410/ELR415
LATCHING STYLE RELAY (MTG. STYLE6-DC ONLY)
Y-COIL LAST ENERGIZED
(-5 Vdc MAX.)

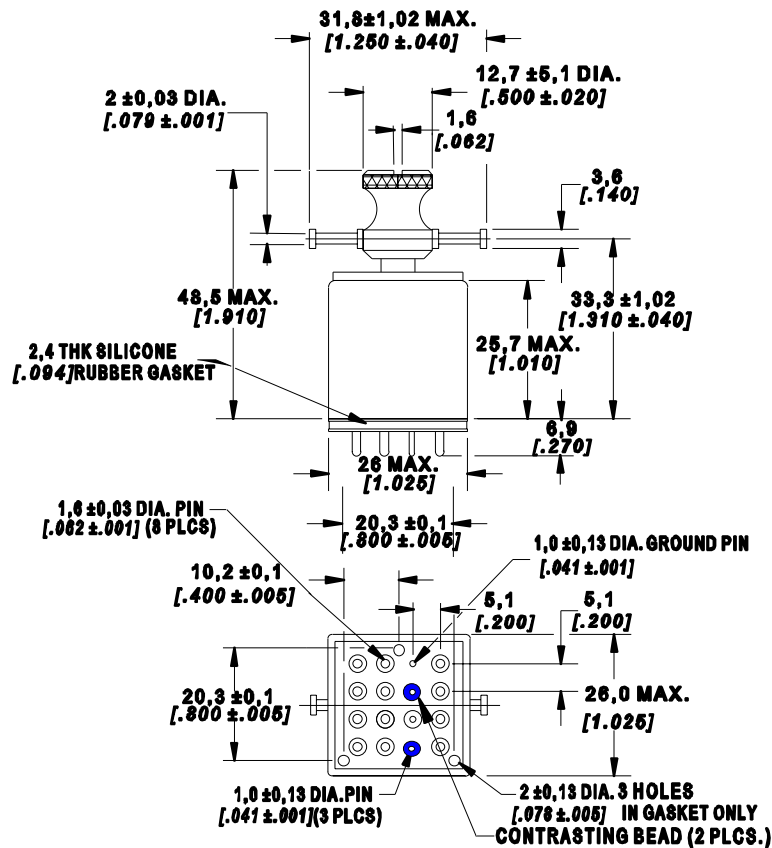
ELS410/ELS415
LATCHING STYLE RELAY (MTG. STYLE6-DC ONLY)
OPTIONAL INTERNAL VOLTAGE SUPPRESSOR
Y-COIL LAST ENERGIZED
(-42 Vdc MAX.)



■ Mounting & Terminal Styles

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± 0.25 (.010)

THESE TRACK MOUNT RELAYS TO BE USED WITH BRACKET ASSY AND TRACKS
MEETING THE REQUIREMENTS OF MIL-PRF-12883. SEE MIL-PRF-12883/50
FOR SOCKET INFORMATION AND MIL-PRF-12883/49 FOR TRACK INFORMATION



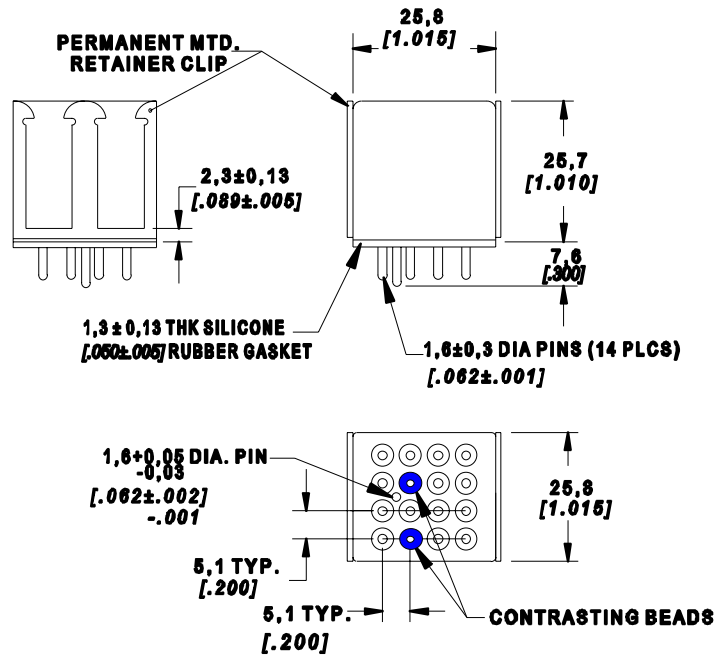
MOUNTING STYLE: 4

TERMINAL STYLE: M

[GOLD PLATED HEADER & TERMINALS (DC)]

■ Mounting & Terminal Styles

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± 0.25 (.010)



MOUNTING STYLE: 6

TERMINAL STYLE: C [GOLD PLATED HEADER & TERMINALS (DC)]

M [GOLD PLATED WITH TIN PLATED POLARIZING PIN]

General characteristics

EL325

No. of poles	3 Form C (3PDT)
Volume	3.3 cm ³ [1 in ³]
Mass	82 grams [1.8 lb. Max]

Switching characteristics

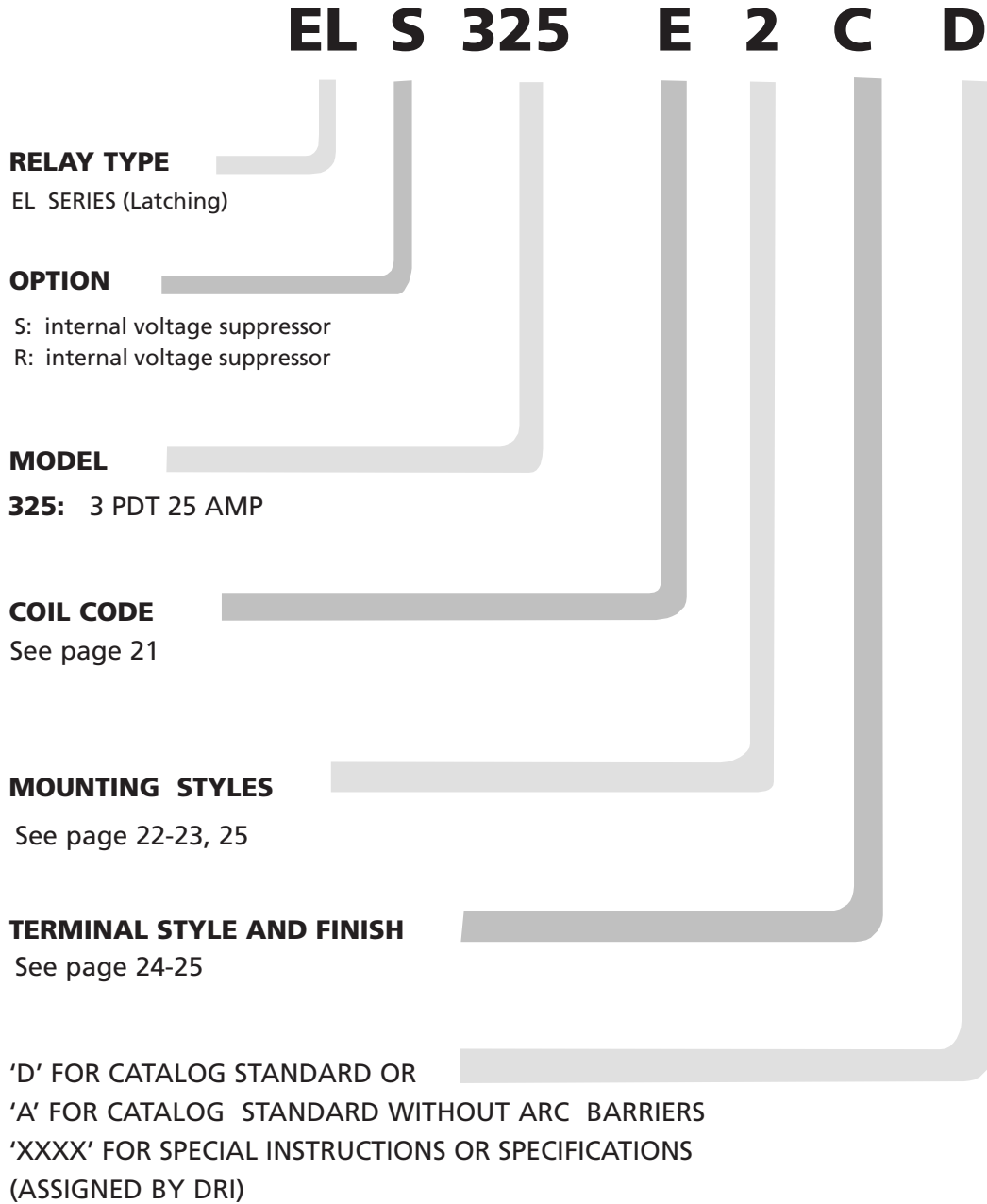
Operate time @ 25° C (Latch and Reset) with DC Coil	15 ms max.																																								
Bounce time	1 ms max.																																								
Mechanical Life	400,000 cycles																																								
Contact rating	<table border="1"> <thead> <tr> <th>Type of load (High level)</th> <th>Cycles x 10³</th> <th>28 Vdc</th> <th>115 Vac 400 Hz 1 phase</th> <th>115/200 Vac 400 Hz 3 phase</th> </tr> </thead> <tbody> <tr> <td>Resistive</td> <td>50</td> <td>25 amps</td> <td>25 amps</td> <td>25 amps</td> </tr> <tr> <td>Inductive</td> <td>10</td> <td>12 amps</td> <td>n/a</td> <td>n/a</td> </tr> <tr> <td>Inductive</td> <td>20</td> <td>n/a</td> <td>15 amps</td> <td>15 amps</td> </tr> <tr> <td>Motor</td> <td>50</td> <td>10 amps</td> <td>10 amps</td> <td>10 amps</td> </tr> <tr> <td>Lamp</td> <td>50</td> <td>5 amps</td> <td>5 amps</td> <td>5 amps</td> </tr> <tr> <td>Overload current</td> <td>n/a</td> <td>50 amps</td> <td>80 amps</td> <td>80 amps</td> </tr> <tr> <td>Rupture current</td> <td>n/a</td> <td>60 amps</td> <td>100 amps</td> <td>100 amps</td> </tr> </tbody> </table>	Type of load (High level)	Cycles x 10 ³	28 Vdc	115 Vac 400 Hz 1 phase	115/200 Vac 400 Hz 3 phase	Resistive	50	25 amps	25 amps	25 amps	Inductive	10	12 amps	n/a	n/a	Inductive	20	n/a	15 amps	15 amps	Motor	50	10 amps	10 amps	10 amps	Lamp	50	5 amps	5 amps	5 amps	Overload current	n/a	50 amps	80 amps	80 amps	Rupture current	n/a	60 amps	100 amps	100 amps
Type of load (High level)	Cycles x 10 ³	28 Vdc	115 Vac 400 Hz 1 phase	115/200 Vac 400 Hz 3 phase																																					
Resistive	50	25 amps	25 amps	25 amps																																					
Inductive	10	12 amps	n/a	n/a																																					
Inductive	20	n/a	15 amps	15 amps																																					
Motor	50	10 amps	10 amps	10 amps																																					
Lamp	50	5 amps	5 amps	5 amps																																					
Overload current	n/a	50 amps	80 amps	80 amps																																					
Rupture current	n/a	60 amps	100 amps	100 amps																																					

Environmental characteristics

Temperature Range	-70°C to +125°C
Vibration (Sinusoidal)	30 g 10-3000 Hz
Shock, any axis	200 g 6 ms
Seal	Hermetic (1 x 10 ⁻⁸ atm cm ³ /s)

Electrical characteristics

Contact voltage drop (@ Rated resistive load)	150 mV Max.						
- Initial	150 mV Max.						
- After guaranteed life	175 mV Max.						
Dielectric strength @ sea level	<table border="1"> <thead> <tr> <th>Coil to Case</th> <th>All other points</th> </tr> </thead> <tbody> <tr> <td>1000 Vrms</td> <td>1250 Vrms</td> </tr> <tr> <td>1000 Vrms</td> <td>1000 Vrms</td> </tr> </tbody> </table>	Coil to Case	All other points	1000 Vrms	1250 Vrms	1000 Vrms	1000 Vrms
Coil to Case	All other points						
1000 Vrms	1250 Vrms						
1000 Vrms	1000 Vrms						
- Initial @ 60Hz	1000 Vrms						
- After guaranteed life @ 60 Hz	1000 Vrms						
Insulation Resistance	100 Megohms min. @ 500 Vdc						
- Initial	50 Megohms min. @ 500 Vdc						
- After life tests	50 Megohms min. @ 500 Vdc						
Reference Military Specifications	MS27742						

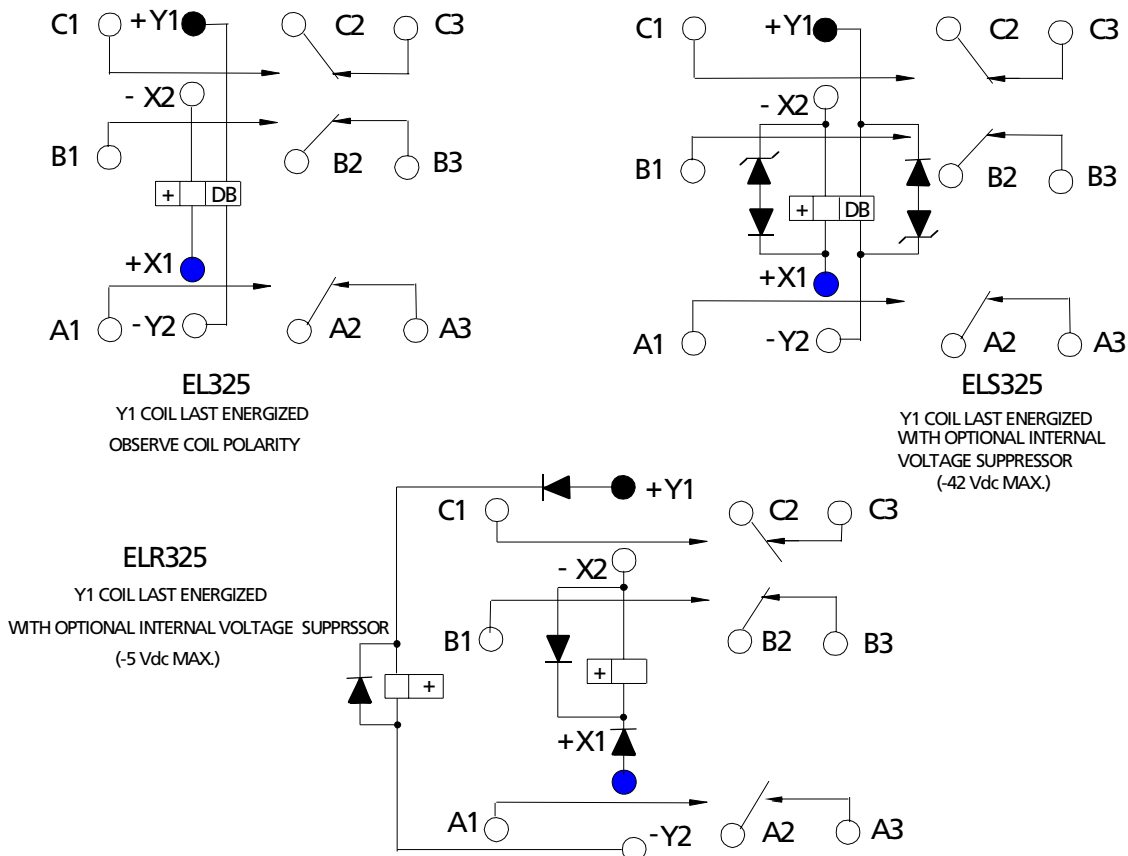


Coil characteristics

COIL CODE	DC						
	A	B	D	E	F	G	J
Nominal coil voltage	6	12	26,5	28	28	48	110
Maximum pick-up voltage at 25°C	3,5	6,5	13,5	14,5	14,5	24	55
Maximum pick-up voltage at 125°C	4,5	9	18	18,7	18,0	36	70
Coil resistance (ohms \pm 10% at 25° C)	15	60	280	300	450	1000	5000
Maximum coil transient suppression	SEE CIRCUIT DIAGRAM BELOW					-100	-180

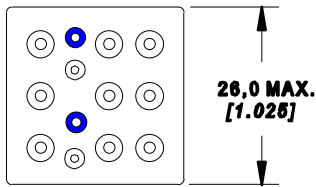
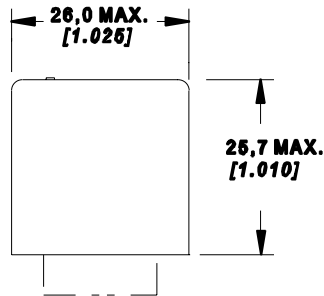
OTHER VOLTAGES AVAILABLE FROM FACTORY ON REQUEST

Circuit diagram

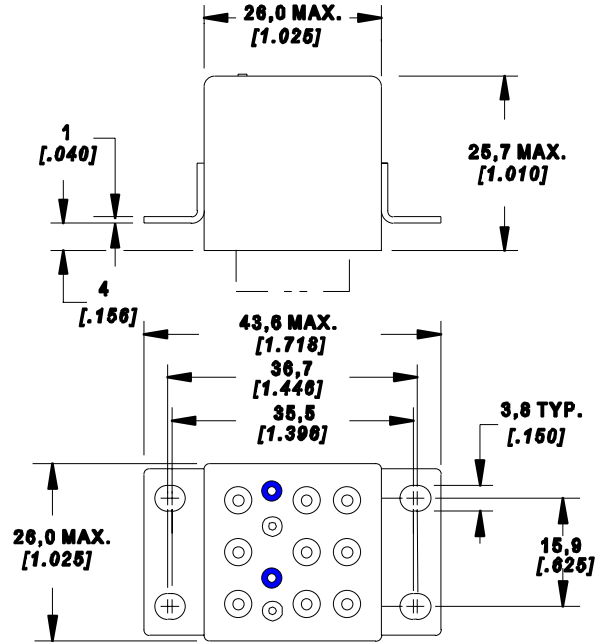


Mounting styles

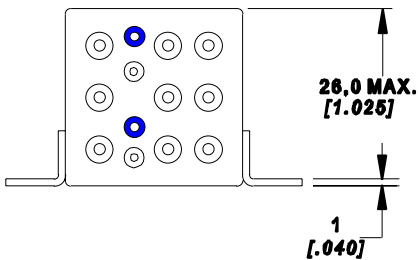
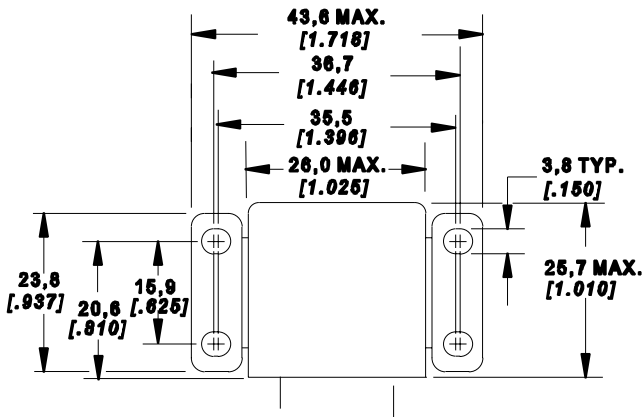
DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ (.010)



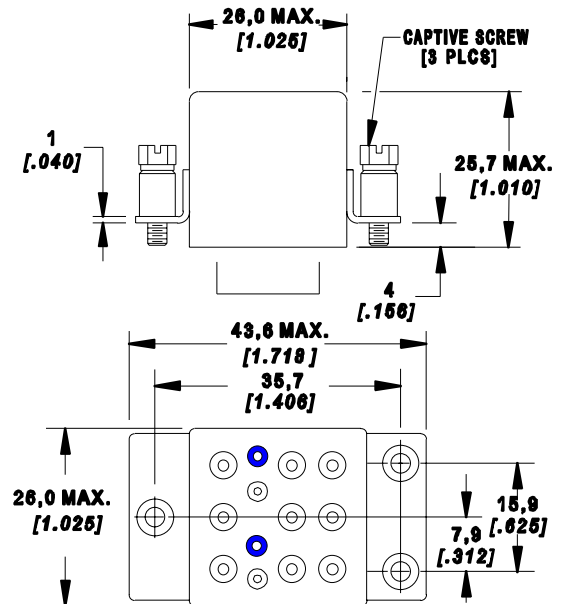
STYLE 1
NO MOUNT



STYLE 2
RAISED VERTICAL FLANGE MOUNT



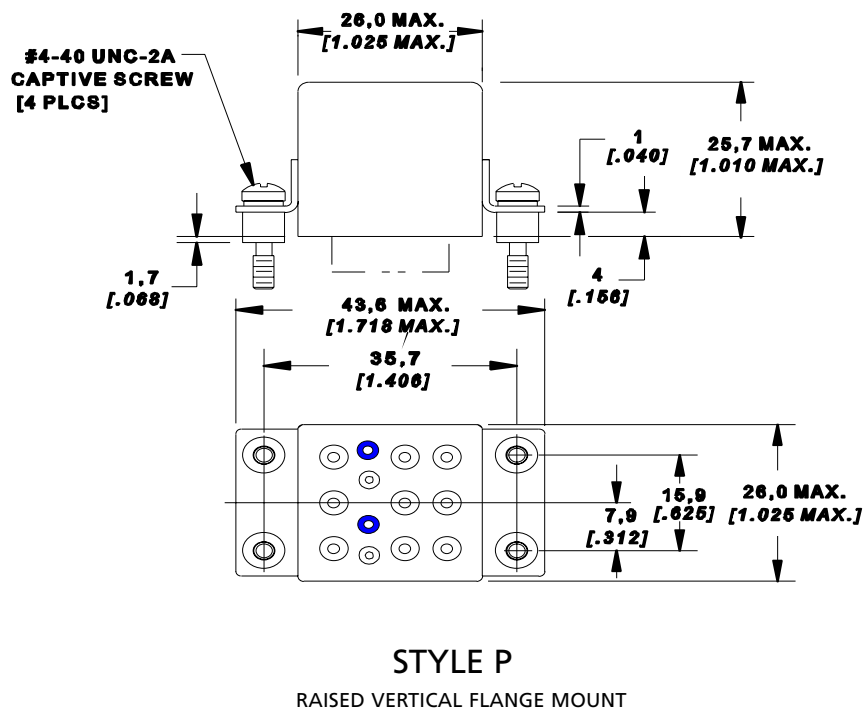
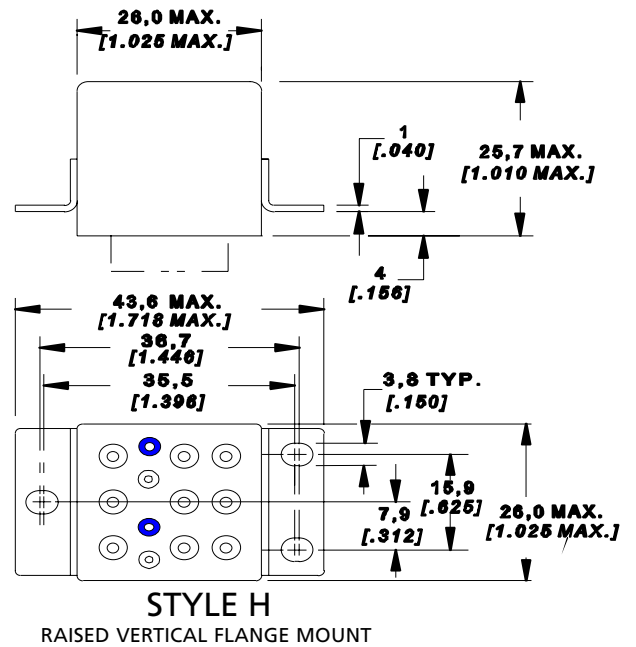
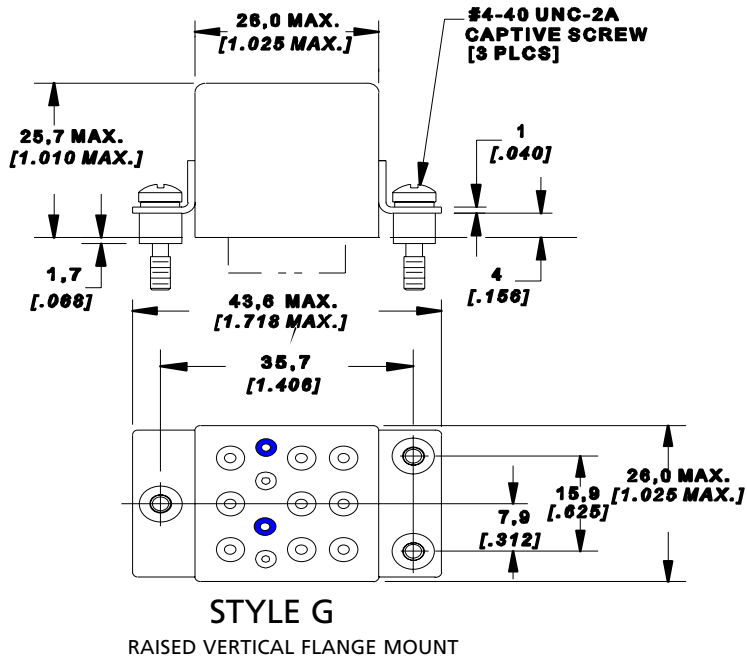
STYLE 3
HORIZONTAL FLANGE MOUNT



STYLE 8: M3 CAPTIVE SCREWS
STYLE C: #4-40 UNC CAPTIVE SCREWS
RAISED VERTICAL FLANGE MOUNT
WITH CAPTIVE HARDWARE

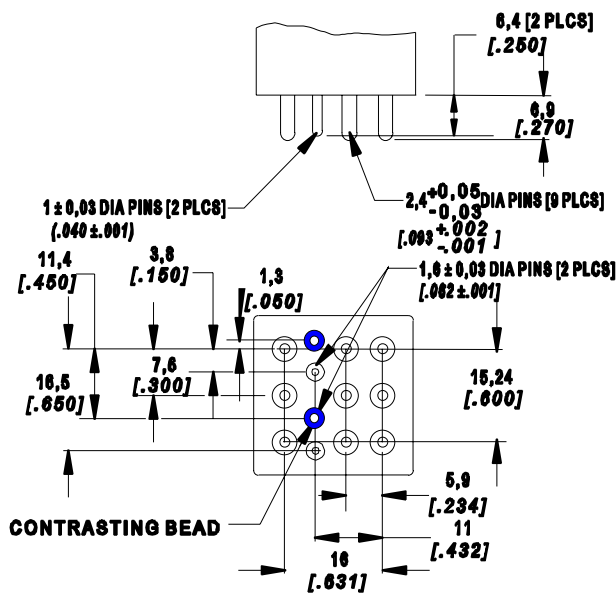
■ Mounting styles (cont.)

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]



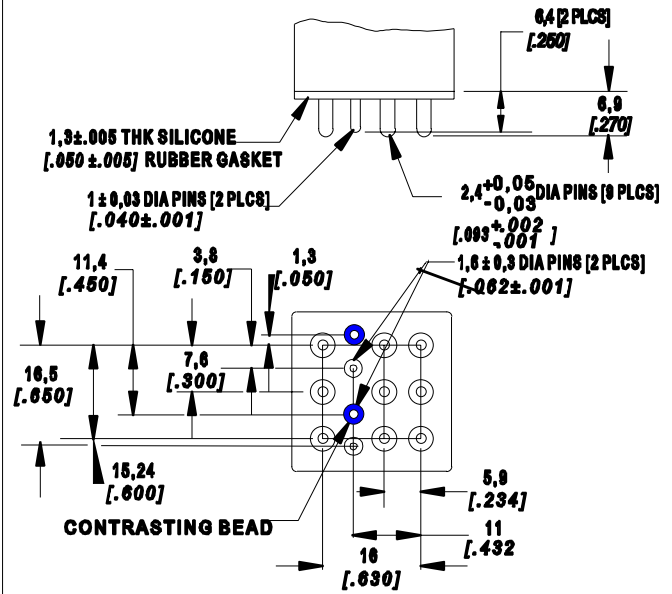
Termination styles

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ (.010)



SOLDER PIN

STYLE A: TIN PLATED
STYLE B: SOLDER DIPPED

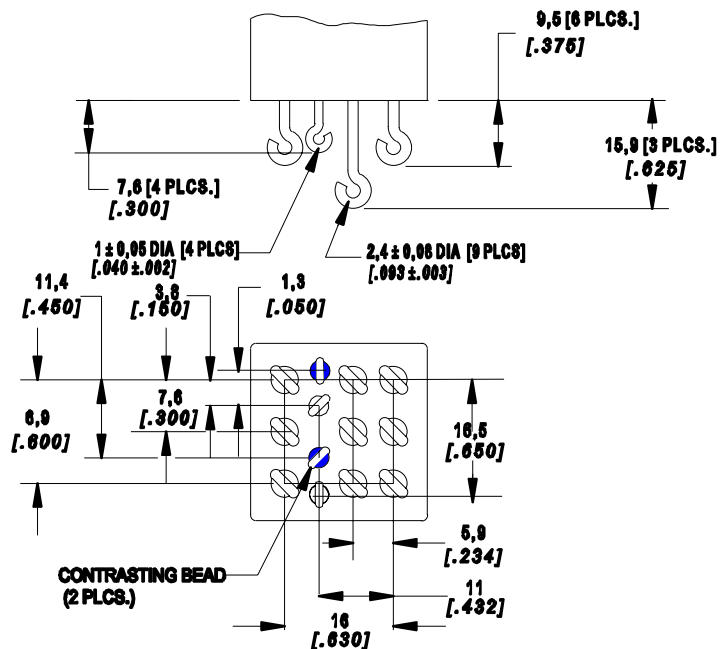


PLUG IN

STYLE C: GOLD PLATED

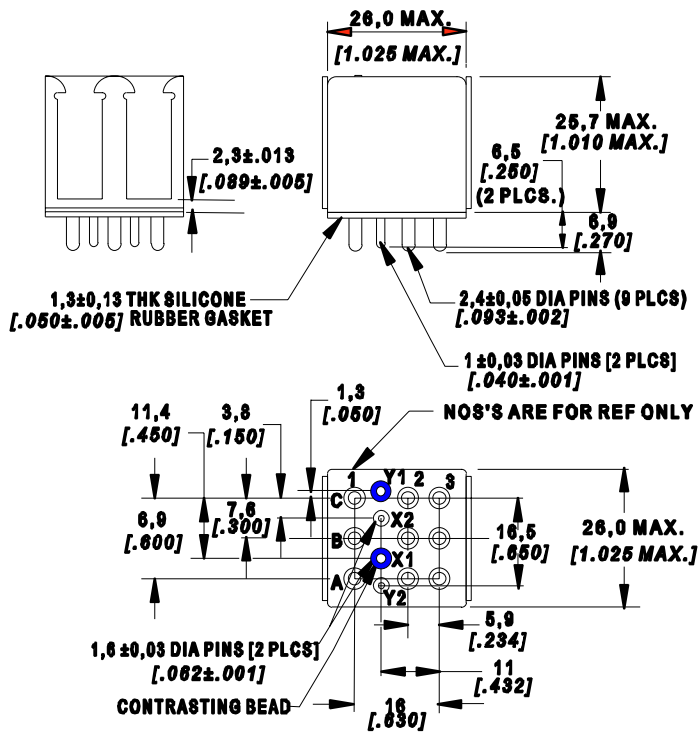
SOLDER HOOK

STYLE H: TIN PLATED
STYLE J: SOLDER DIPPED

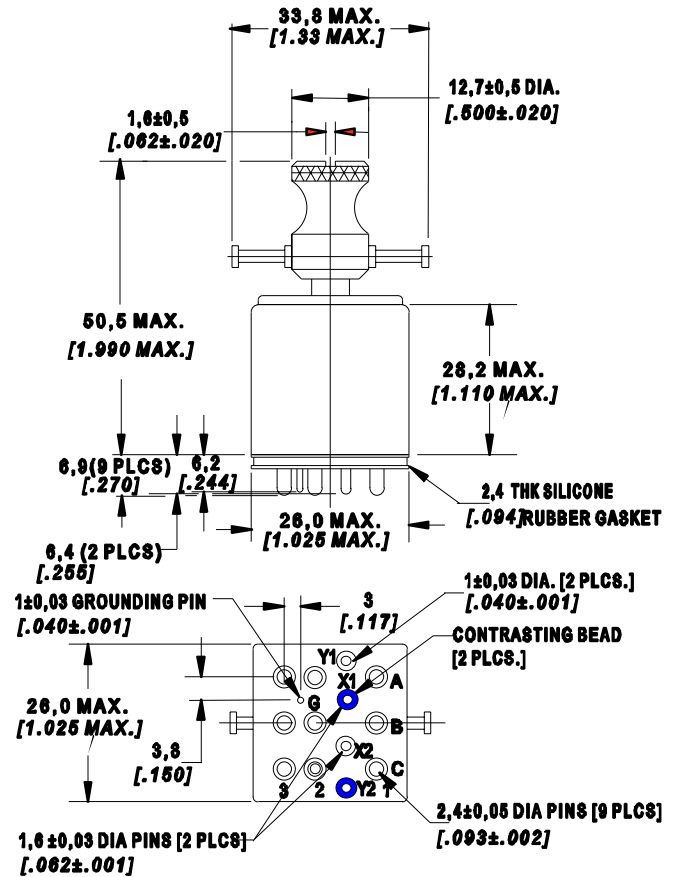


EL325 Track Mount Characteristics

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]



TRACK MOUNT H
MOUNTING STYLE 6
TERMINAL STYLE C (GOLD PLATED)



GASKET NOT SHOWN IN THIS VIEW

TRACK MOUNT B
MOUNTING STYLE 5
TERMINAL STYLE C (GOLD PLATED)

THIS TRACK MOUNT RELAY TO BE USED WITH BRACKET ASSY AND TRACKS MEETING THE REQUIREMENTS OF MIL-R-12883.

General characteristics

No. of poles	2 Form Z
Volume	3.3 cm ³ [1.03 in ³]
Mass	77 grams [1.17 lb. Max]

Switching characteristics

Operate time @ 25° C with DC coil (Latch & Reset)	15 ms max.
Bounce time @ 25° C	5 ms max.
Mechanical Life	400,000 cycles

Contact rating	Type of load (High level)	Cycles x 10 ³	28 Vdc	115 Vac	115 Vac	115/200 Vac	115/200 Vac
				400 Hz 1 phase	50/60 Hz 1 phase	400 Hz 3 phase	50/60 Hz 3 phase
	Resistive	100	15 amps	15 amps	9 amps	15 amps	9 amps
	Inductive	20	15 amps	15 amps	n/a	15 amps	n/a
	Inductive	10	n/a	n/a	9 amps	n/a	9 amps
	Motor	100	10 amps	10 amps	5 amp	10 amps	5 amps
	Lamp	100	5 amps	5 amps	3 amps	n/a	n/a
	Overload current	n/a	40 amps	60 amps	n/a	60 amps	n/a
	Rupture current	n/a	50 amps	80 amps	n/a	80 amps	n/a

Environmental characteristics

Temperature Range	-70°C to +125°C
Vibration (Sinusoidal)	30 g 10-3000 Hz
Mounting Style 3	20 g 57-3000 Hz
Shock, any axis	200 g 6 ms
Mounting Style 3	100 g 6 ms
Seal	Hermetic (1 x 10 ⁻⁸ atm cm ³ /s)

Electrical characteristics

Contact voltage drop (@ Rated resistive load)	
- Initial	150 mV Max.
- After guaranteed life	175 mV Max.

Dielectric strength @ sea level	Coil to Case	All other points
	1250 Vrms	1250 Vrms
- Initial @ 60Hz	1250 Vrms	1250 Vrms
- After guaranteed life @ 60 Hz	1250 Vrms	1250 Vrms

Insulation Resistance	
- Initial	1000 Megohms min. @ 500 Vdc
- After life tests	500 Megohms min. @ 500 Vdc

Reference Military Specifications	MIL-PRF-83536
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EDL S 2 A 2 A D

RELAY TYPE

'EDL' = Double Break Latching

OPTIONAL

'S' Internal Voltage suppressor
'R' Internal Voltage suppressor

MODEL

2: 2 FORM Z 15 Amps

COIL CODE

2: See Page 28

MOUNTING STYLES

2: See Page 29 - 30

TERMINAL STYLE AND FINISH

2: See Page 31

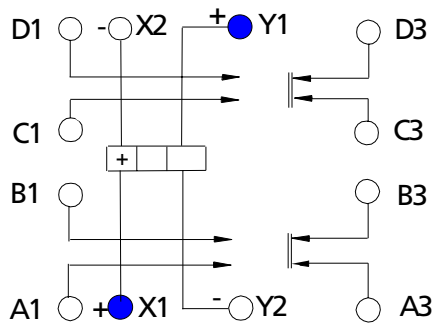
'D' FOR CATALOG STANDARD OR
'A' FOR CATALOG STANDARD WITHOUT ARC BARRIERS OR
'XXXX' FOR SPECIAL INSTRUCTIONS OR SPECIFICATIONS
(ASSIGNED BY DRI)

Coil Characteristics

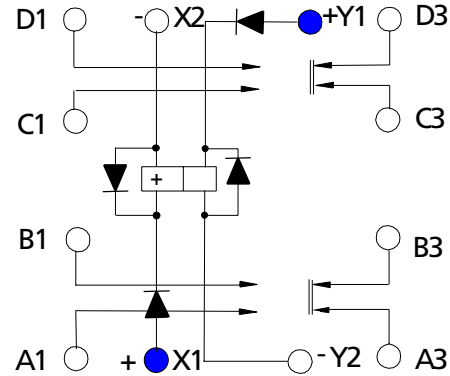
COIL CODE	DC					
	A	B	D	E	G	J
Nominal coil voltage	6	12	26,5	28	48	110
Maximum latch & reset voltage at 25°C	3	6	13,5	14	24	55
Maximum latch & reset voltage at 125°C	3,9	7,7	18	18	31	70
Coil resistance (ohms ±10% at 25 C)	18	70	290	290	955	5000
Maximum coil transient suppression (where applicable) VDC	See	circuit	diagram	below	100	180

OTHER VOLTAGES AVAILABLE FROM FACTORY ON REQUEST

Circuit Diagram

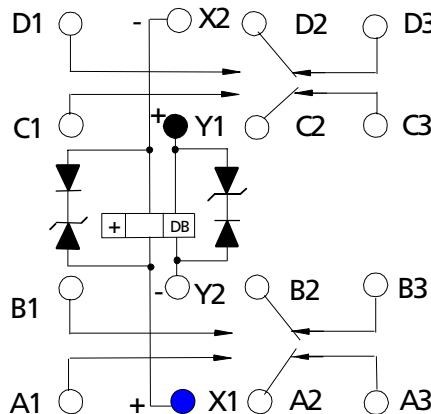


EDL2
Y1 - COIL
LAST ENERGIZED



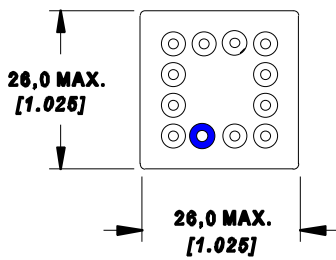
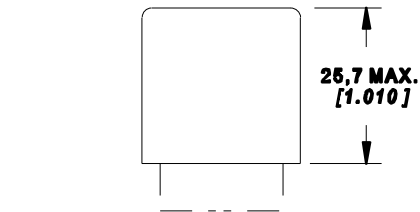
EDLR2
Y1 - COIL LAST ENERGIZED*
WITH OPTIONAL INTERNAL
VOLTAGE SUPPRESSOR
(-5 Vdc MAX.)

EDLS2
Y1 - COIL
LAST ENERGIZED
OPTIONAL INTERNAL
VOLTAGE SUPPRESSOR
(-42 Vdc MAX.)

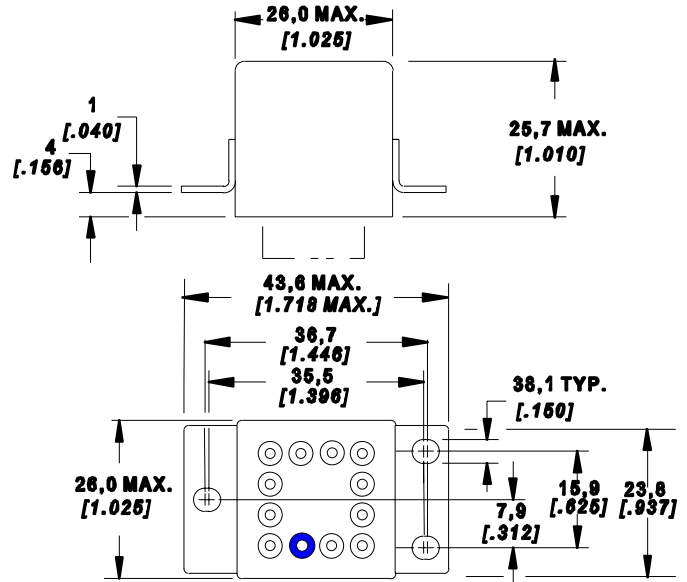


Mounting styles

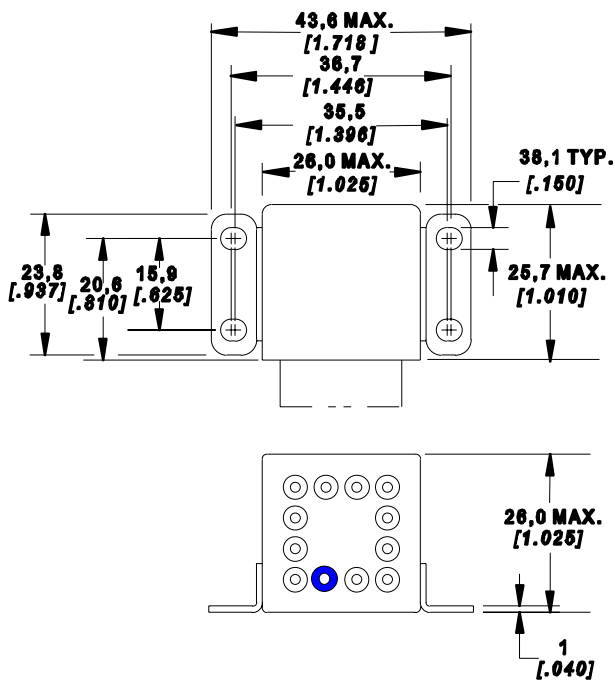
DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]



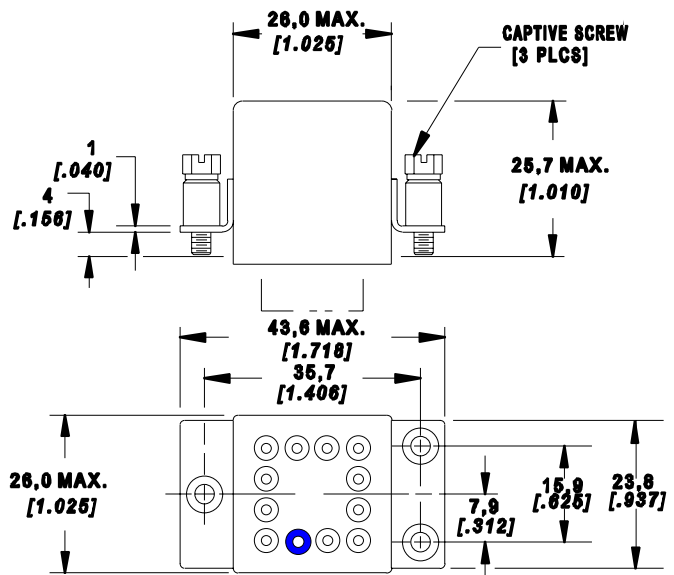
STYLE 1
NO MOUNT



STYLE 2
RAISED VERTICAL FLANGE MOUNT



STYLE 3
HORIZONTAL FLANGE MOUNT



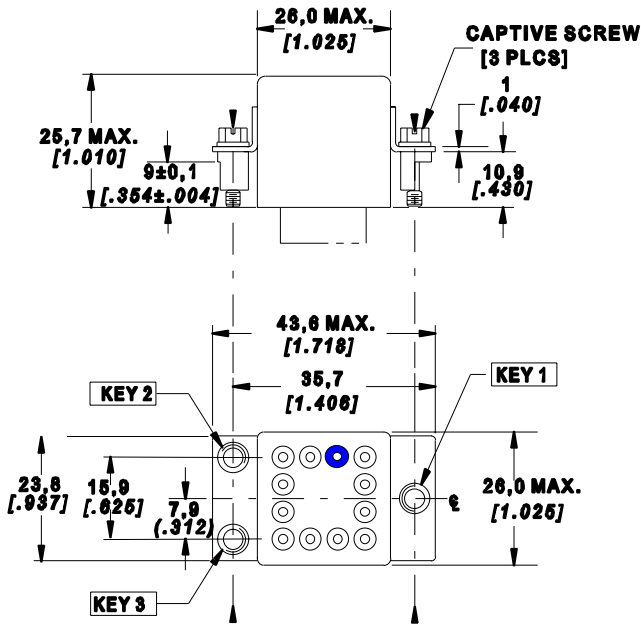
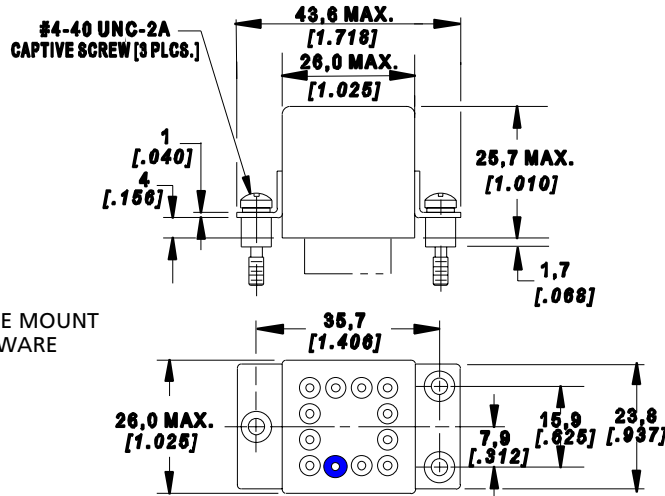
STYLE 8: M3 CAPTIVE SCREWS
STYLE C: #4-40 UNC CAPTIVE SCREWS
RAISED VERTICAL FLANGE MOUNT
WITH CAPTIVE HARDWARE

Mounting styles

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]

STYLE G

RAISED VERTICAL FLANGE MOUNT WITH CAPTIVE HARDWARE

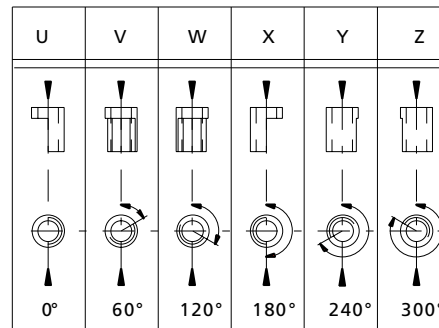


KEYING SYSTEM WITH CAPTIVE HARDWARE

STYLE A: M3 CAPTIVE SCREWS

STYLE B: #4-40 UNC CAPTIVE SCREWS

KEYING POSITIONS

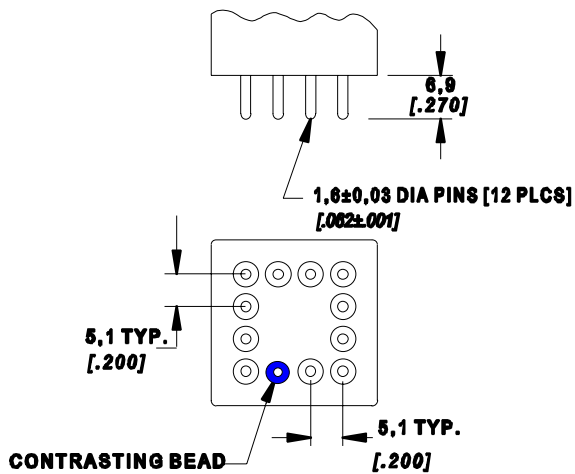


	COIL	KEY 1	KEY 2	KEY 3
SUPPRESSED	6 VDC	V	Z	V
	12 VDC	X	Z	V
	26.5 VDC	Z	X	U
	28 VDC	Z	X	V
	48 VDC	V	Z	U
	110 VDC	X	Z	U
	6 VDC	V	Z	X
	12 VDC	X	Z	X
	26.5 VDC	Z	X	W
	28 VDC	Z	X	Y
48 VDC	V	Z	W	
110 VDC	X	Z	W	

KEYING CONFIGURATION SHOWN IN TABLE COMES STANDARD WITH SPECIFIED COIL VOLTAGE. FOR ORDERING OTHER KEYING POSITIONS USE 3 DIGIT (XXX) "SPECIAL INSTRUCTIONS" ON END OF P/N.
EX: EDL2ABCXYZ

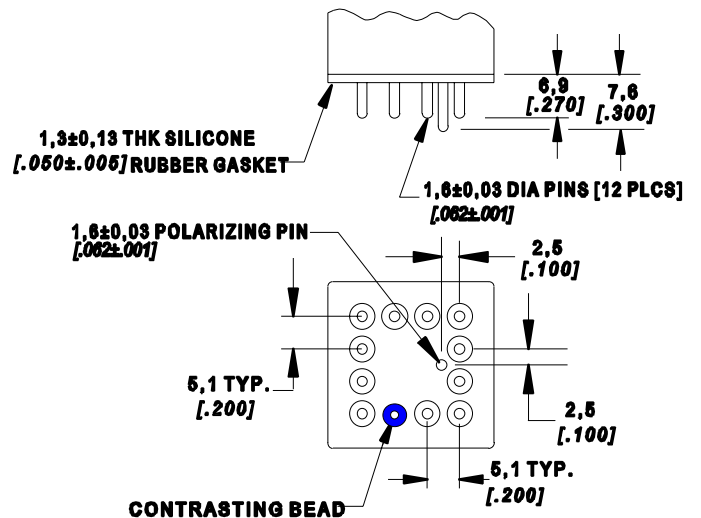
Termination styles

DIMENSIONS ARE IN MM (IN.)
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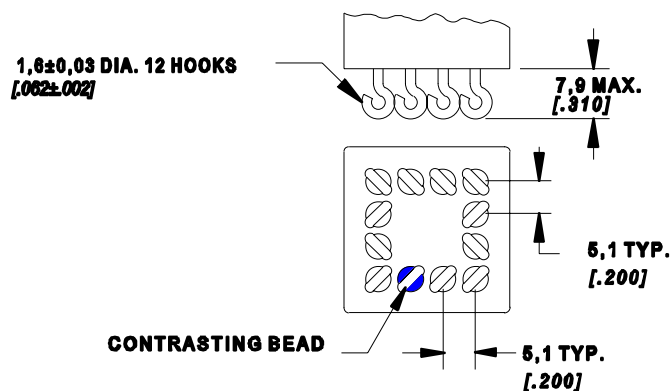
SOLDER PIN

STYLE A: TIN PLATED
STYLE B: SOLDER DIPPED



PLUG IN

STYLE M: GOLD PLATED WITH TIN PLATED
POLARIZING PINS



SOLDER HOOK

STYLE H: TIN PLATED
STYLE J: SOLDER DIPPED