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Stocked Switches — SP2T

50 Years of Excellence

SEM Series

SP2T / DC-26.5 GHz

- **16 Stock Models in SP2T Series**
- **Standard Features Include:**
  Latching Models, Failsafe Models, TTL Logic Control, Indicator Circuits HOT Switching (SEM023DNH Only)



DC-18 GHz

MODEL NO.	FEATURES	ACTUATING CURRENT mA 28Vdc @ 25°C	FREQUENCY RANGE DC-18 GHz	INSERTION LOSS dB(max)	VSWR (max)	ISOLATION dB(min)
SEM020 SEM020-12 SEM020-24	SP2T(SMA) FAILSAFE	160 275 @ 12V 200 @ 24V	DC-3 3-8 8-12.4 12.4-18	0.2 0.3 0.4 0.5	1.2:1 1.3:1 1.4:1 1.5:1	80 70 60 60
SEM020L	SP2T (SMA) PULSE LATCHING	200	DC-3 3-8 8-12.4 12.4-18	0.2 0.3 0.4 0.5	1.2:1 1.3:1 1.4:1 1.5:1	80 70 60 60
SEM123	SP2T (SMA) FAILSAFE INDICATOR CKT	160	DC-3 3-8 8-12.4 12.4-18	0.2 0.3 0.4 0.5	1.2:1 1.3:1 1.4:1 1.5:1	80 70 60 60
SEM123D	SP2T (SMA) FAILSAFE INDICATOR CKT TTL* SUPPRESSION DIODE	160	DC-3 3-8 8-12.4 12.4-18	0.2 0.3 0.4 0.5	1.2:1 1.3:1 1.4:1 1.5:1	80 70 60 60
SEM123L	SP2T (SMA) PULSE LATCHING INDICATOR CKT	200	DC-3 3-8 8-12.4 12.4-18	0.2 0.3 0.4 0.5	1.2:1 1.3:1 1.4:1 1.5:1	80 70 60 60
SEM123T	SP2T (SMA) FAILSAFE INDICATOR CKT TERMINATED	280	DC-3 3-8 8-12.4 12.4-18	0.2 0.3 0.4 0.5	1.2:1 1.3:1 1.4:1 1.5:1	80 70 60 60
SEM123LT	SP2T (SMA) PULSE LATCHING TERMINATED INDICATOR CKT	280	DC-3 3-8 8-12.4 12.4-18	0.2 0.3 0.4 0.4	1.2:1 1.3:1 1.4:1 1.4:1	80 70 60 60

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MODEL NO.	FEATURES	ACTUATING CURRENT mA @28 Vdc & 25°C	FREQUENCY RANGE DC-18 GHz	INSERTION LOSS dB(max)	VSWR (max)	ISOLATION dB(min)
SEM123LD	SP2T (SMA) PULSE LATCHING INDICATOR CKT TTL*	200	DC-3 3-8 8-12.4 12.4-18	0.2 0.3 0.4 0.5	1.2:1 1.3:1 1.4:1 1.5:1	80 70 60 60
SEM123DT	SP2T (SMA) FAILSAFE TERMINATED INDICATOR CKT SUPPRESSOR DIODE TTL*	280	DC-3 3-8 8-12.4 12.4-18	0.2 0.3 0.4 0.5	1.2:1 1.3:1 1.4:1 1.5:1	80 70 60 60
SEM123LDT SEM123LDT-24	SP2T (SMA) PULSE LATCHING INDICATOR CKT TERMINATED TTL* SELF DE-ENERGIZING	280 325 @ 24V	DC-3 3-8 8-12.4 12.4-18	0.2 0.3 0.5 0.5	1.2:1 1.3:1 1.4:1 1.5:1	80 70 60 60

DC-12.4 GHz N Connectors

MODEL NO.	FEATURES	ACTUATING CURRENT mA @24Vdc & 25°C	FREQUENCY RANGE DC-12.4 GHz	INSERTION LOSS dB (max)	VSWR (max)	ISOLATION dB (min)
SEM123N	SP2T (N) FAILSAFE INDICATOR CKT	180	DC-3 3-8 8-12.4	0.2 0.35 0.5	1.2:1 1.35:1 1.5:1	80 70 60
SEM123DN	SP2T (N) FAILSAFE INDICATOR CKT TTL* SUPPRESSION DIODE	180	DC-3 3-8 8-12.4	0.2 0.35 0.5	1.2:1 1.35:1 1.5:1	80 70 60

DC-26.5 GHz SMA Connectors

MODEL NO.	FEATURES	ACTUATING CURRENT mA @28 Vdc & 25°C	FREQUENCY RANGE DC-26.5 GHz	INSERTION LOSS dB (max)	VSWR (max)	ISOLATION dB (min)
SEM124	SP2T (SMA) FAILSAFE INDICATOR CKT	160	DC-3 3-8 8-12.4 12.4-18 18-26.5	0.2 0.3 0.4 0.5 0.7	1.2:1 1.3:1 1.4:1 1.5:1 1.7:1	80 70 60 60 50

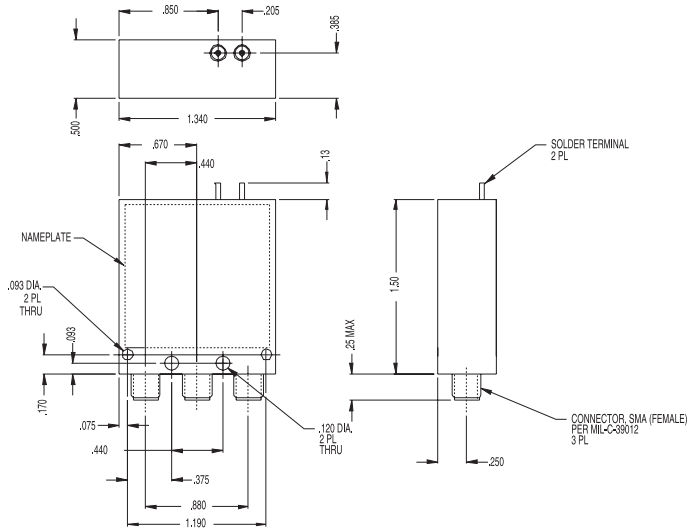
*APPLIES TO ALL SWITCHES WITH TTL:
1. Selected position of the switch is controlled by TTL Logic
2. Switch requires only nominal +28 Vdc for coils (additional 5 Vdc is not required).
3. TTL LOGIC LEVEL: Low 0 to .8 VDC High 2.5 to 5.0 VDC
4. TTL LOGICD INPUT CURRENT: Low 0 mA High 1.6 mA max @ 3.85 VDC

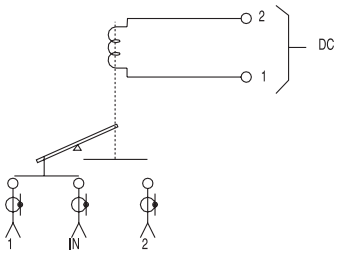
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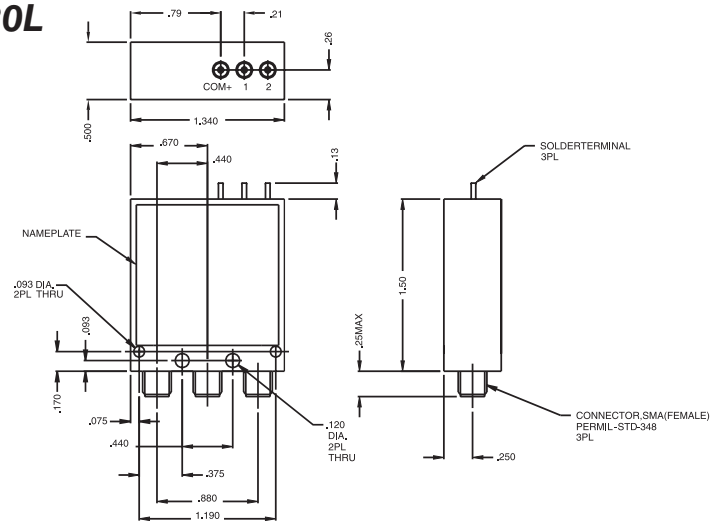
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SEM020-12
SEM020-24

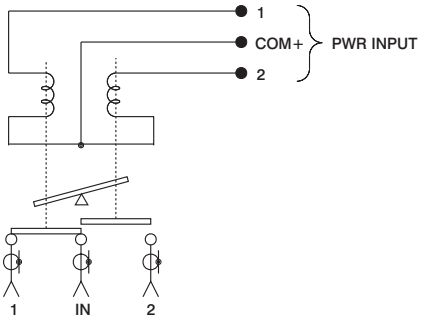




SCHEMATIC SHOWN IN FAILSAFE POSITION

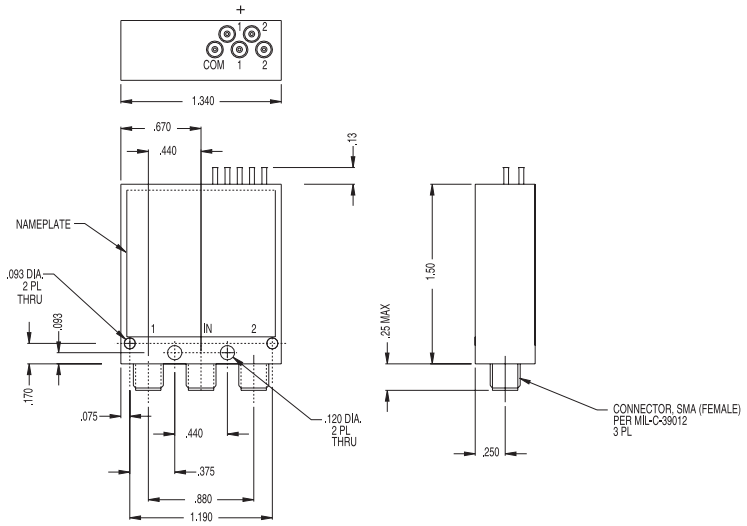
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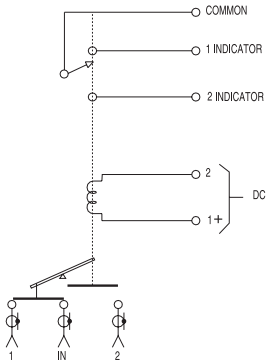




SCHEMATIC SHOWN WITH POSITION 1 CLOSED

SEM123



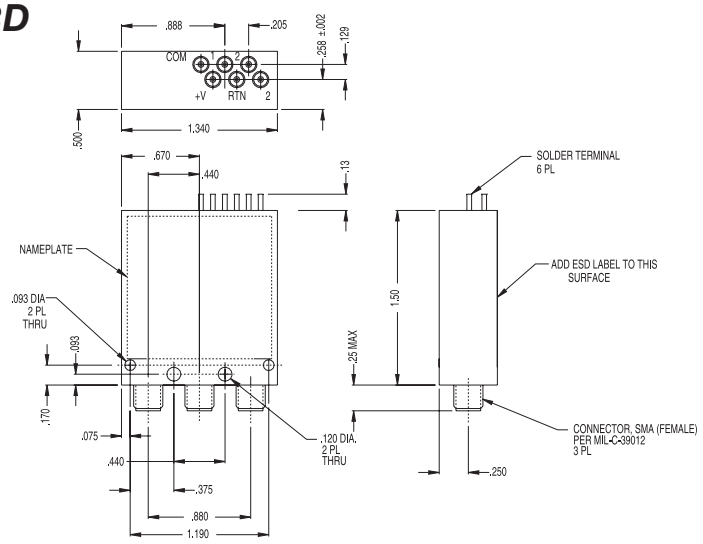


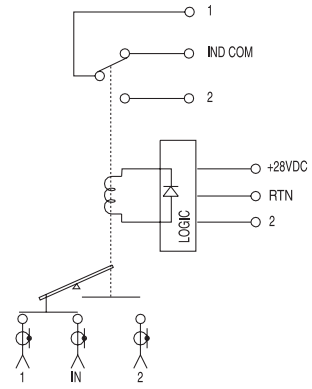
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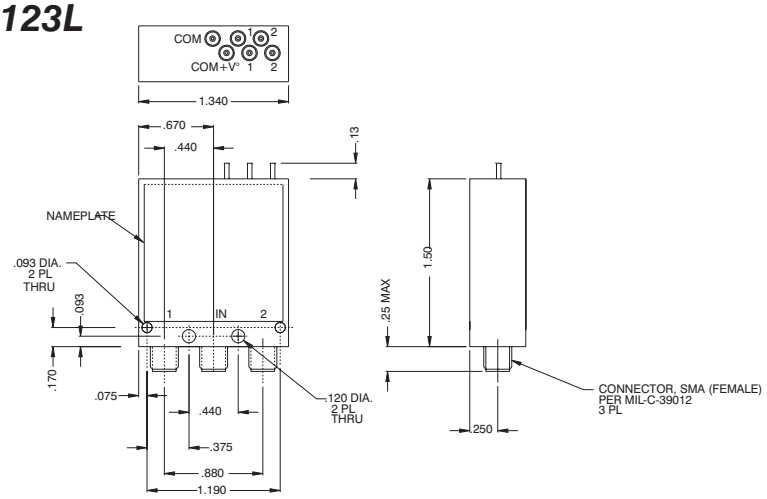
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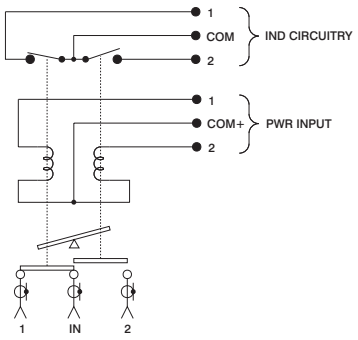




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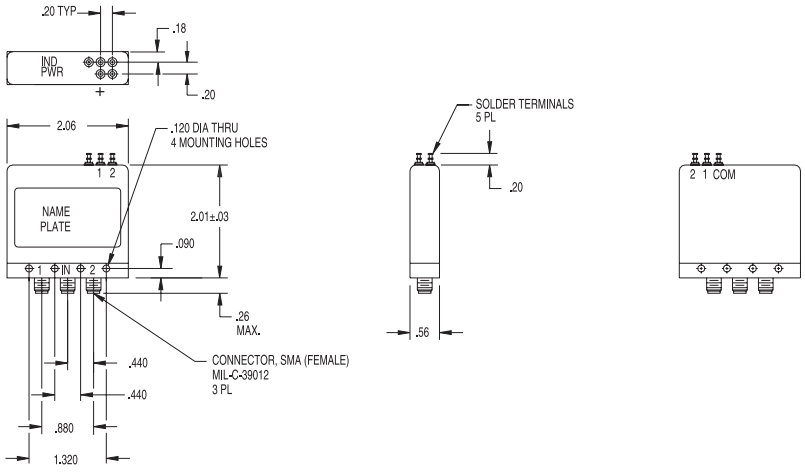
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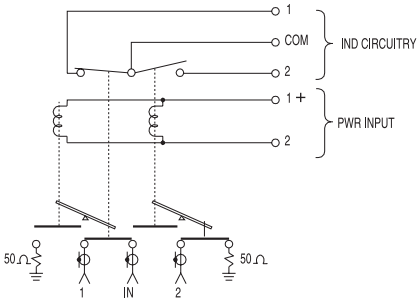




SCHEMATIC SHOWN WITH POSITION 1 CLOSED

SEM123T





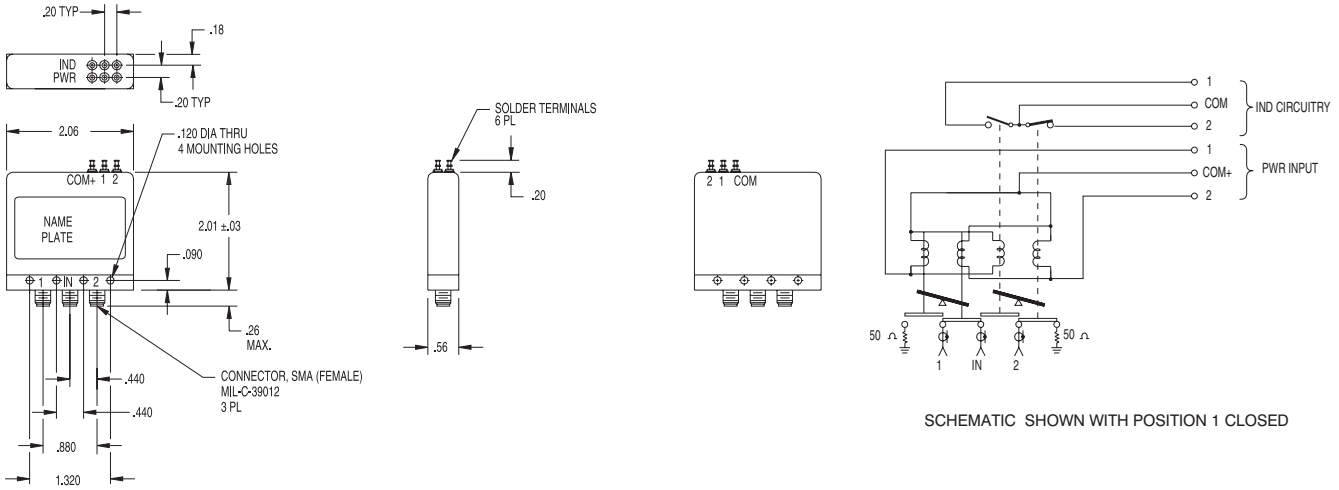
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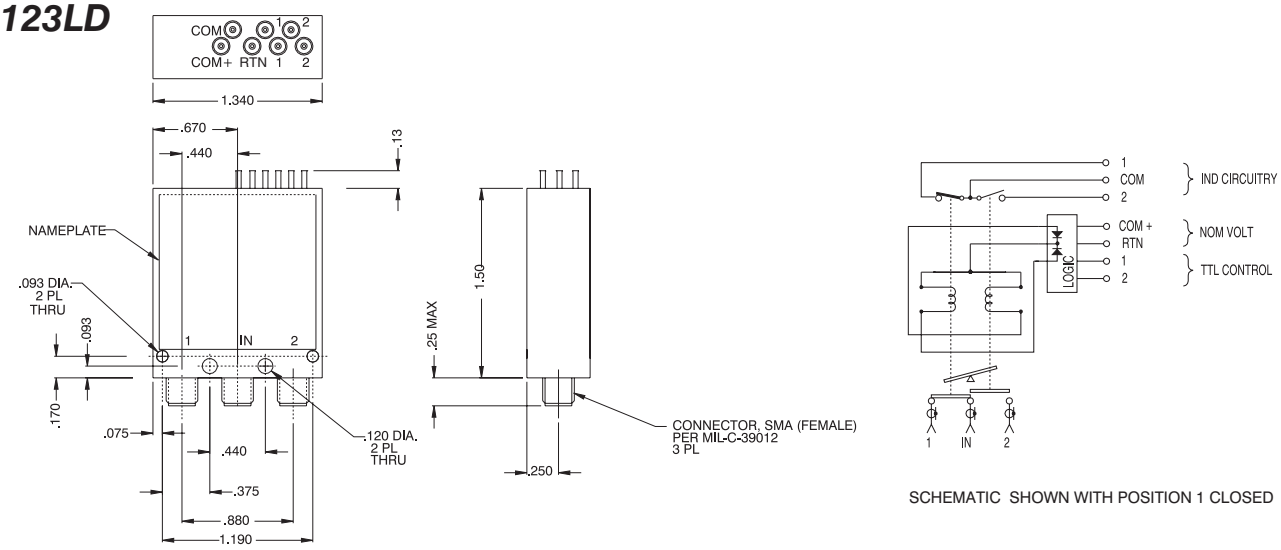
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SEM123LT



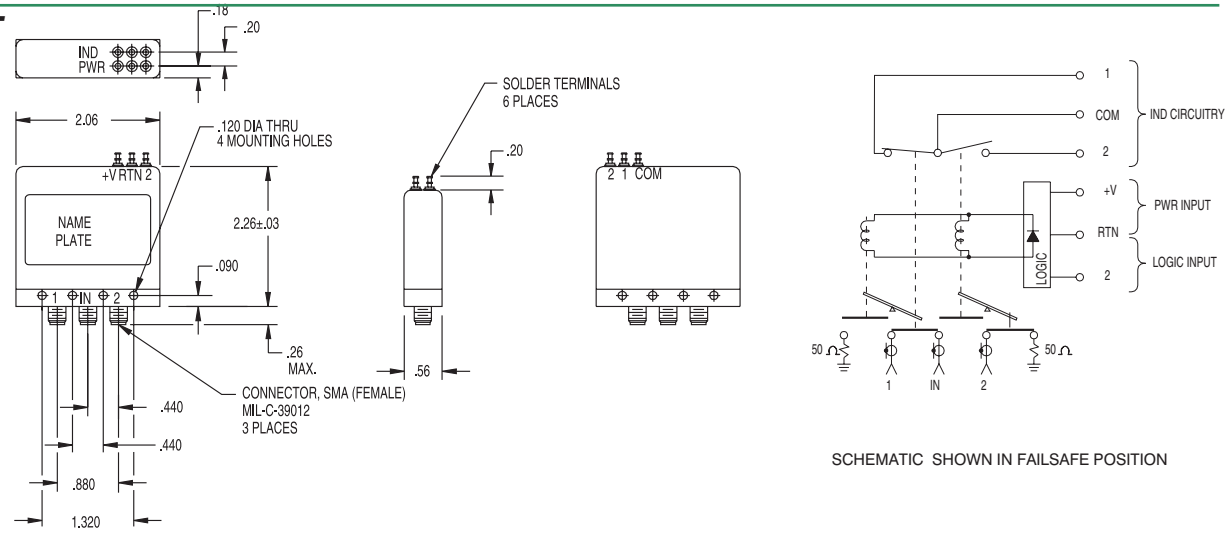
SCHEMATIC SHOWN WITH POSITION 1 CLOSED

SEM123LD



SCHEMATIC SHOWN WITH POSITION 1 CLOSED

SEM123DT

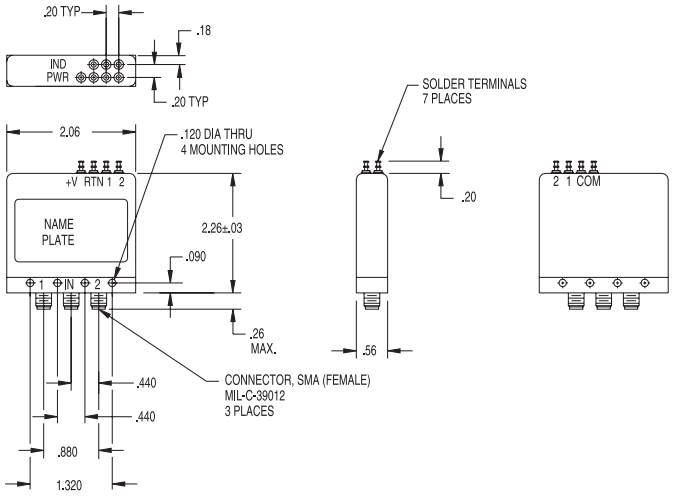


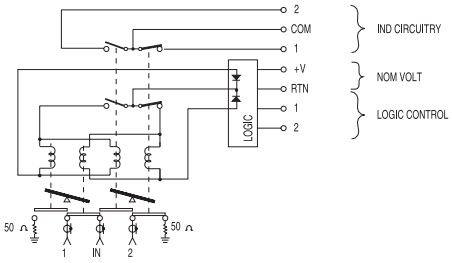
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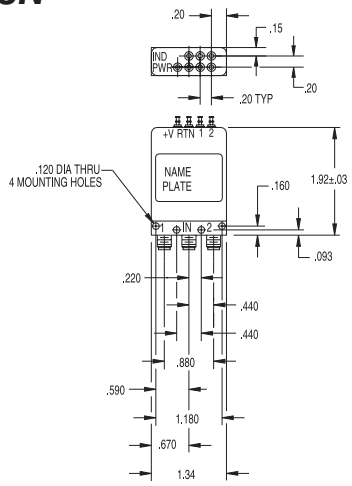
SEM123LDT
SEM123LDT-24

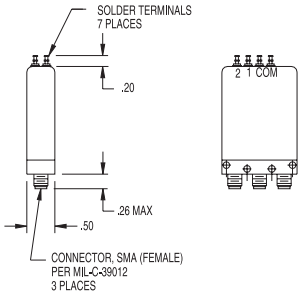


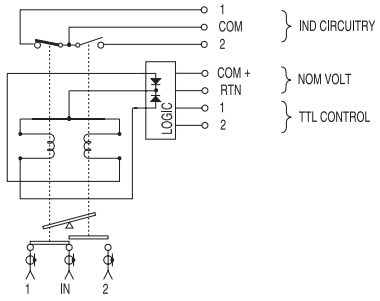


SCHEMATIC SHOWN WITH POSITION 1 CLOSED

SEM123N







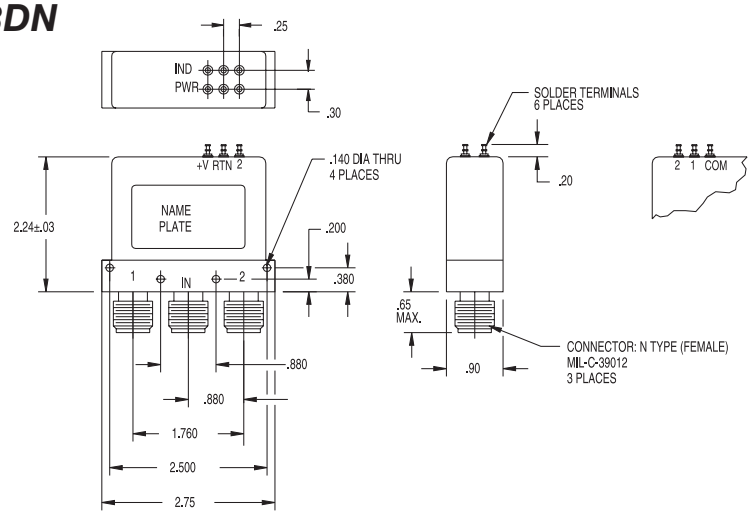
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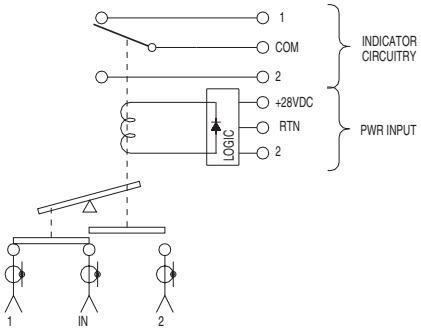
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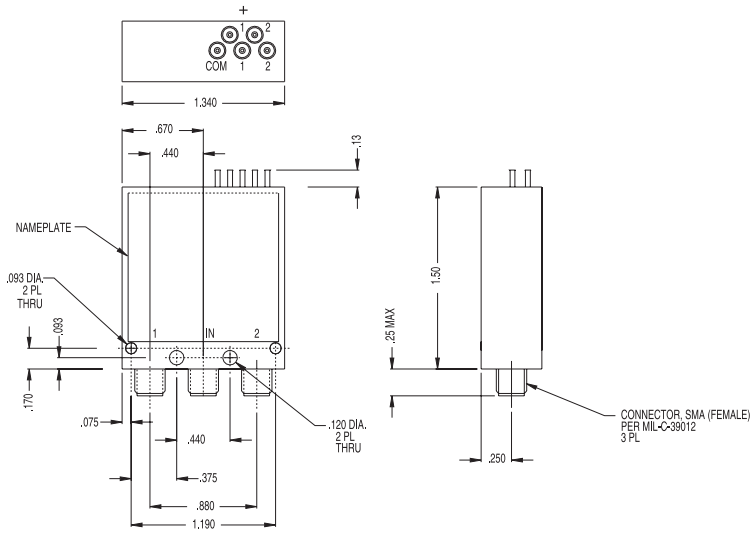
SEM123DN

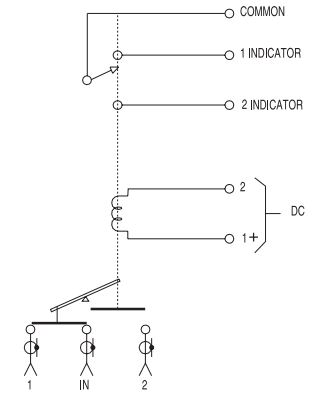




SCHEMATIC SHOWN IN FAILSAFE POSITION

SEM124





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