

The **TF Series** features SMA connectors and a frequency range of DC to 18 GHz.

The **TFE Series** also features SMA connectors and a frequency range of DC to 26.5 GHz.

Both series are available with failsafe function.

<b>Weight (max.):</b>	5 oz
<b>RF Impedance:</b>	50 ohms nominal
<b>Operating Temperature:</b>	-25°C to +65°C ambient
<b>Operating Life:</b>	1,000,000 cycles min.
<b>Switching Sequence:</b>	Break Before Make

**SPECIFICATIONS**

Frequency	VSWR (max.)	Insertion Loss (dB max.)	Isolation (dB min.)
DC-4 GHz	1.20	0.20	80
4-8 GHz	1.30	0.25	75
8-12 GHz	1.35	0.30	70
12-18 GHz	1.40	0.40	60
18-26.5 GHz	1.50	0.50	50

Actuator Current (typical)	12Vdc	15 Vdc	24 Vdc	28Vdc
Failsafe	455mA	410mA	245mA	225mA

\* If reduced coil current is required, please contact Factory.

Position	NO	NC	Latching
Switching Time - mSec (Max)	15	35	N/A

**AVAILABLE OPTIONS**

OPTION 3 VOLTAGE	OPTION 4 ACTUATOR		OPTION 5 POLARITY
1 - 12 Vdc	<b>Fail-Safe</b>		1 - Negative
2 - 28 Vdc	<b>A</b> - Standard	<b>C</b> - Indicators	2 - Positive
3 - 15 Vdc	<b>B</b> - Diodes	<b>D</b> - Diodes, Indicators	3 - Not Applicable
5 - Other	<u>Low Input Drivers with:</u>		OPTION 6 TERMINALS
6 - 24 Vdc	<b>E</b> - Diodes	<b>EH</b> - Diodes	1 - Solder
7 - 5 Vdc	<b>F</b> - Diodes, Indicators	<b>FH</b> - Diodes, Indicators	Terminals
			2 - Circular Connector
			3 - Other (Specify)
			4 - Micro Miniature CON-NECTOR or equivalent

**ADDITIONAL OPTIONS**

OPTION 7 STANDARD OPTIONS
1 - Moisture Seal
2 - High Temperature (125° C)
3 - Moisture Seal & High Temperature (125° C)

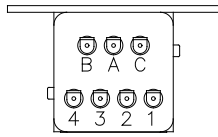
Schematics may include optional Indicator Contacts. If your Actuator Option does not include Indicator Contacts, omit them from the schematic.

**For "Additional Options" please contact Factory for part number**

**TF/TFE**

<b>Option 2</b> Series	<b>Option 3</b> Voltage	<b>Option 4</b> Actuator	<b>Option 5</b> Polarity	<b>Option 6</b> Terminals
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**TOP VIEW**



Actual markings will reflect terminal functions, not letter or number designation as shown above.

**DC TERMINAL FUNCTIONS**

PIN	FAILSAFE		
	A, C	B, D	E, EH, F, FH
1	N/A	N/A	N/A
2	AV	AV+	C RTN
3	AV	AV-	+V SW
4	N/A	N/A	L

**SCHEMATICS**

Pages 132-137		
S17	S18	S19

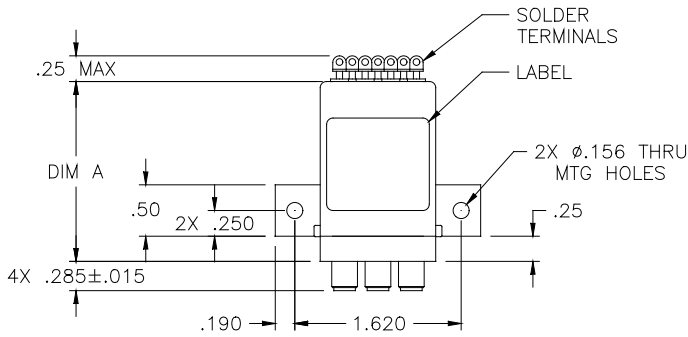
**INDICATORS**

PIN	A	B	C
	COM	N/C	N/O

See Page 158 for Legend of Terms and Tolerances

See Page 138 for Logic & BCD Truth Table

**FRONT VIEW  
Options A, B, C, D**



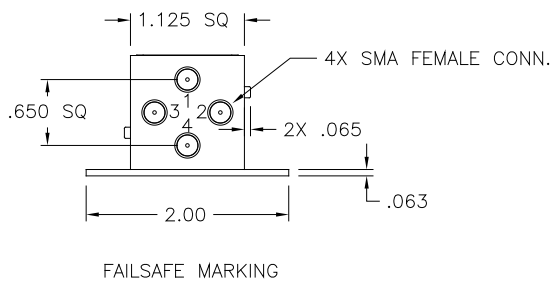
AVAILABLE OPTIONS*	OUTLINE DRAWING DIMENSION "A"
A, B, C, D	1.42
E, EH, F, FH	1.75

\* Consult factory for Dimension "A" when multi pin connector is desired. For the circular connector configuration see page 64

**RF STATUS**

RF	FAILSAFE
1-3, 2-4	DE-ENERGIZED
1-2, 3-4	ENERGIZED

**BOTTOM VIEW**



**FRONT VIEW  
Options E, EH, F, FH**

