



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

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

**TEL/TELE Series** are available with failsafe, latching self cut-off, or pulse latching functions. **TEL/TELE Series** are available with failsafe function.

<b>Weight (max.):</b>	6 oz
<b>RF Impedance:</b>	50 ohms nominal
<b>Operating Temperature:</b>	-25°C to +65°C ambient
<b>Operating Life:</b>	5,000,000 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	0.30	75
8-12 GHz	1.40	0.40	70
12-18 GHz	1.50	0.50	60
18-26.5 GHz	1.50	0.50	60

Actuator Current (typical)	12Vdc	15 Vdc	24 Vdc	28Vdc
Failsafe	375mA	300mA	180mA	170mA
Latching	335mA	270mA	180mA	165mA
Pulse Latching	470mA	375mA	250mA	225mA

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

Position	NO	NC	Latching
Switching Time - mSec (Max)	15	35	20

**AVAILABLE OPTIONS**

OPTION 3 VOLTAGE	OPTION 4 ACTUATOR		OPTION 5 POLARITY
1 - 12 Vdc 2 - 28 Vdc 3 - 15 Vdc 5 - Other 6 - 24 Vdc 7 - 5 Vdc	<b>Failsafe</b> <b>A - Standard</b> <b>C - Indicators</b> <b>B - Diodes</b> <b>D - Diodes, Indicators</b>  <u>Low Input Drivers with:</u> <u>High Input Drivers with:</u> <b>E - Diodes</b> <b>EH - Diodes</b> <b>F - Diodes, Indicators</b> <b>FH - Diodes, Indicators</b>		<b>Pulse Latching</b> <b>T - Standard</b> <b>U - Diodes</b> <b>V - Indicators</b> <b>W - Diodes, Indicators</b>
	<b>Latching Self Cut-Off</b> <b>G - Diodes</b> <b>H - Diodes, Indicators</b>  <u>Low Input Drivers with:</u> <u>High Input Drivers with:</u> <b>J - Diodes</b> <b>JH - Diodes</b> <b>K - Diodes, Indicators</b> <b>KH - Diodes, Indicators</b>		<b>OPTION 6 TERMINALS</b> 1 - Solder Terminals 3 - Other (Specify) 4 - Sub M miniature D-Shell Connector

**ADDITIONAL OPTIONS**

OPTION 7 STANDARD OPTIONS
1 - Moisture Seal 2 - High Temperature (125° C) 3 - Moisture Seal & High Temperature (125° C)
OPTION 8 BRACKETS
D - See Page 146 E - See Page 146 F - See Page 146
OPTION 9 BODIES
T - See Page 148 TA/TAE Series Only

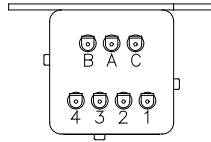
Schematics may include optional Indicator Contacts. If your Actuator Option does not include Indicator Contacts, omit them from the schematic.

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

**TEL/TELE**

- Option 2  
Series
- Option 3  
Voltage
- Option 4  
Actuator
- Option 5  
Polarity
- Option 6  
Terminals

**TOP VIEW**



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

**DC TERMINAL FUNCTIONS**

PIN	FAILSAFE			LATCHING		
	A, C	B, D	E, EH, F, FH	G, H	J, JH, K, KH	T, U, V, W
1	N/A	N/A	N/A	C+/-	C RTN	C+/-
2	AV	AV+	C RTN	N/A	+ V SW	N/A
3	AV	AV-	+V SW	AV 2-/+	L 2	PV 2-/+
4	N/A	N/A	L	AV 1-/+	L 1	PV 1-/+

**SCHEMATICS**

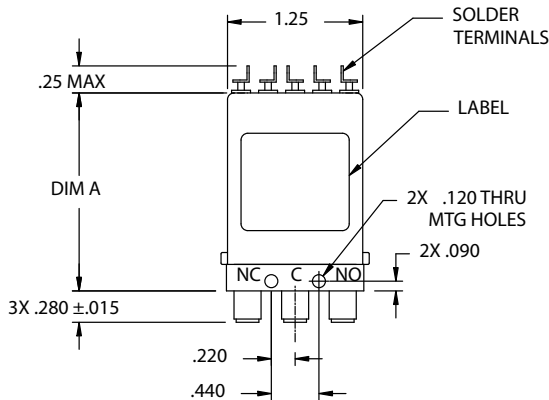
Pages 132-137						
	S17	S18	S19	S20	S21	S22, S23

**INDICATORS**

PIN	A	B	C
	COM	1 or N/C	2 or N/O

See Page 158 for Legend of Terms and tolerances  
See Page 138 for Logic & BCD Truth Table

**FRONT VIEW**



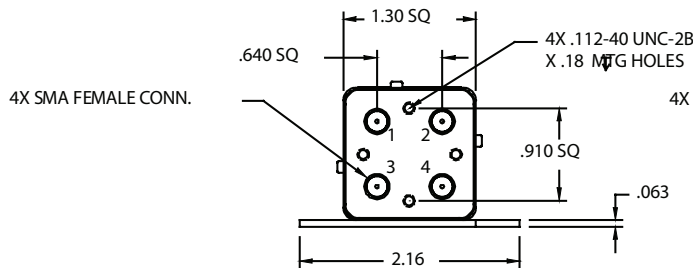
AVAILABLE OPTIONS*	OUTLINE DRAWING	
	DIMENSION "A"	
A, B, C, D	1.75	
E, EH, F, FH	2.25	
J, JH, K, KH	2.00	
G, H, V, W	1.75	
T, U	1.50	

\* Consult factory for Dimension "A" when multi pin connector is desired.

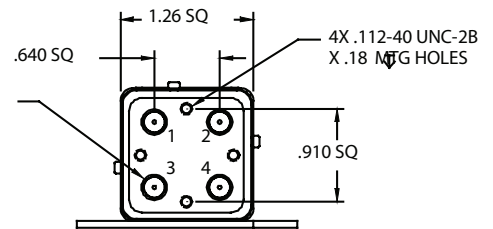
**RF STATUS**

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

**BOTTOM VIEW**



TEL/TELE SWITCH



TEL/TELE SWITCH