



The **TK4 Series** features K connectors and a frequency range of DC to 40 GHz.

This series is available with failsafe, latching self cut-off or pulse latching functions.

<b>RF Impedance:</b>	50 ohms nominal
<b>Temperature Range:</b>	-35°C to +85°C ambient
<b>Operating Life:</b>	1,000,000 cycles min.
<b>Switching Time:</b>	15 mSec max.
<b>Switching Sequence:</b>	Break Before Make
<b>Environmental:</b>	Designed in Accordance to MIL-DTL-3928 (Testing and Operation Modes)

**SPECIFICATIONS**

Frequency	VSWR (max.)	Insertion Loss (dB max.)	Isolation (dB min.)
DC-6 GHz	1.30	0.30	70
6-12 GHz	1.40	0.40	60
12-18 GHz	1.50	0.50	60
18-26.5 GHz	1.70	0.70	55
26.5-40 GHz	2.00	1.00	50

Actuator Current (typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Failsafe	480mA	480mA	330mA	280mA
Latching	280mA	280mA	270mA	220mA

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

**AVAILABLE OPTIONS**

OPTION 2 RF CONNECTORS	OPTION 4 VOLTAGE	OPTION 5 ACTUATOR	OPTION 6 FREQUENCY	OPTION 8 SPECIAL OPTIONS
9 - K	1 - 6 Vdc +/- 10% 2 - 12 Vdc +/- 10% 3 - 24-30 Vdc 4 - 48 Vdc +/- 10% 5 - 110 Vac +/- 10%	<b>Failsafe</b>	7 - DC to 40 GHz	L - TTL (High) LL - TTL (Low) 1 - Bracket
		A - Standard M - Diodes		
<b>OPTION 3 TERMINALS</b>	6 - 12-15 Vdc 7 - 18-20 Vdc 8 - 20-24 Vdc	<b>Latching Self Cut-Off</b>	<b>OPTION 7 POLARITY</b>	0 - Not Applicable 8 - Positive Common 9 - Negative Common
		D - Diodes E - Diodes, Indicators		
1 - Solder Terminals 2 - Circular Connector 4 - Sub M iniature D-Shell Connector		<b>Pulse Latching</b>		
		C - Standard Y - Diodes		
		F - Indicators L - Diodes, Indicators		

**TK4 - 9 7**

Option 1 Series	Option 2 RF Connectors	Option 3 Terminals	Option 4 Voltage	Option 5 Actuator	Option 6 Frequency	Option 7 Polarity	Option 8 Special Options
--------------------	---------------------------	-----------------------	---------------------	----------------------	-----------------------	----------------------	-----------------------------

**DC TERMINAL FUNCTION**

PIN	FAILSAFE							LATCHING						
	A	M	A, M w/ TTL	B	Q	B, Q w/ TTL	C, Y	C, Y w/ TTL	D	D w/ TTL	E	E w/ TTL	F, L	F, L w/ TTL
1	N/A	N/A	N/A	COM	COM	COM	N/A	+A	N/A	+A	COM	+A	COM	+A
2	1	+1	N/A	1	1	1	N/A	N/A	N/A	N/A	1	-B	1	-B
3	N/A	N/A	N/A	2	2	2	N/A	1	N/A	1	2	1	2	1
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	N/A	2
5	N/A	N/A	+A	N/A	N/A	N/A	COM+/-	N/A	COM+/-	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	-B	N/A	N/A	N/A	1-/+	N/A	1-/+	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	2	N/A	N/A	N/A	2-/+	N/A	2-/+	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	1	+1	+A	N/A	-B	N/A	-B	COM+/-	COM	COM+/-	COM
9	2	-2	N/A	2	-2	-B	N/A	N/A	N/A	N/A	1-/+	1	1-/+	1
10	N/A	N/A	N/A	N/A	N/A	2	N/A	2	N/A	2	2-/+	2	2-/+	2

**SCHEMATICS**

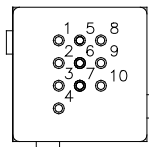
Pages 139-143

FIG.	7	7	8	7	7	8	13	14	13	14	13	14	19	20
------	---	---	---	---	---	---	----	----	----	----	----	----	----	----

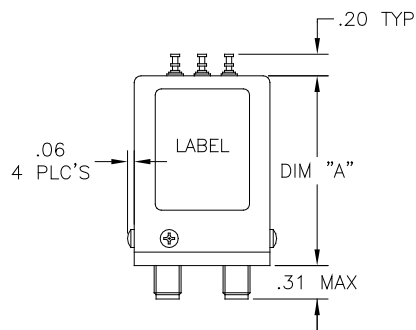
**OUTLINE DRAWING DIMENSION "A"**

1.76"	1.76"	1.88"	1.76"	1.76"	1.88"	1.76"	1.88"	1.76"	1.88"	1.76"	1.88"	1.76"	1.88"
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

**TOP VIEW**



**FRONT VIEW**



**BOTTOM VIEW**

