DK1 SERIES
SPDT SWITCH
DC-40 GHz ◆ K

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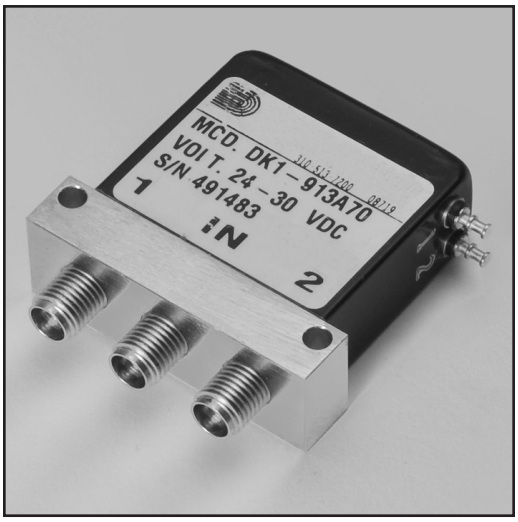
Ducommun



The DK1 Series features K connectors and a frequency range of DC to 40 GHz.

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

RF Impedance:	50 ohms nominal
Temperature Range:	–35°C to +85°C ambient
Operating Life:	1,000,000 cycles min.
Switching Time:	15 mSec max.
Switching Sequence:	Break Before Make
Environmental:	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
26.5-32 GHz	1.90	0.80	50
32-40 GHz	2.00	1.00	50

Actuator Current (typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Fail-safe	240mA	300mA	200mA	140mA
Latching	141mA	176mA	109mA	88mA

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

AVAILABLE OPTIONS

OPTION 2 RF CONNECTORS

9 -	K

OPTION 3 TERMINALS

1 -	Solder Terminals
4 -	Sub M iniature D-Shell Connector

OPTION 4 VOLTAGE

1 -	6 Vdc +/- 10%
2 -	12 Vdc +/- 10%
3 -	24-30 Vdc
4 -	48 Vdc +/- 10%
5 -	110 Vac +/- 10%
6 -	12-15 Vdc
7 -	18-20 Vdc
8 -	20-24 Vdc

OPTION 5 ACTUATOR

Fail-safe

A -	Standard	**B -**	Indicators
M -	Diodes	**Q -**	Diodes, Indicators

Latching Self Cut-Off

D -	Diodes
E -	Diodes, Indicators

Pulse Latching

C -	Standard	**F -**	Indicators
Y -	Diodes	**L -**	Diodes, Indicators

OPTION 6 FREQUENCY

7 -	DC to 40 GHz

OPTION 7 POLARITY

0 -	Not Applicable
8 -	Positive Common
9 -	Negative Common

OPTION 8 SPECIAL OPTIONS

L -	TTL (High)
LL -	TTL (Low)

DK1	-	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

	FAILSAFE								LATCHING					
PIN	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	2	2	2	2	2-/+	N/A	2-/+	N/A	2	2	2	2
2	N/A	N/A	-B	1	1	1	1-/+	2	1-/+	2	1	1	1	1
3	N/A	N/A	+A	COM	COM	COM	COM+/-	-B	COM+/-	-B	COM	COM	COM	COM
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	N/A	N/A	N/A	2	N/A	N/A	N/A	N/A	2-/+	1	2-/+	1
6	N/A	N/A	N/A	2	-2	-B	N/A	1	N/A	1	1-/+	-B	1-/+	-B
7	N/A	N/A	N/A	1	+1	+A	N/A	+A	N/A	+A	COM+/-	+A	COM+/-	+A
8	1	+1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9	2	-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

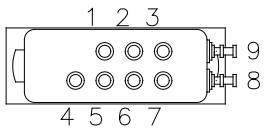
SCHEMATICS

	Pages 139-143													
FIG.	3	3	4	3	3	4	15	16	9	10	9	10	15	16

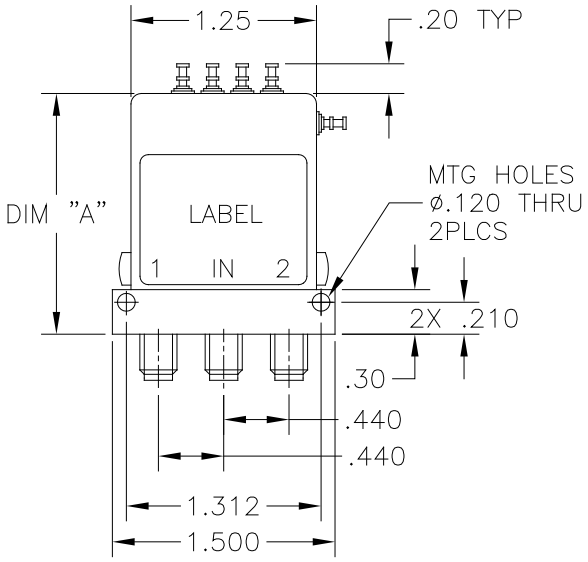
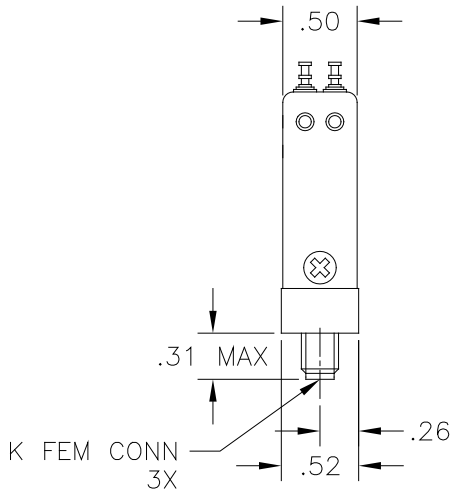
OUTLINE DRAWING DIMENSION "A"

	1.42"	1.42"	1.92"	1.72"	1.62"	1.92"	1.42"	1.92"	1.62"	1.92"	1.62"	1.92"	1.62"	1.92"

TOP VIEW



FRONT VIEW



SIDE VIEW