

2K SERIES DC-40 GHz | 2.92 mm



The **2K Series** features 2.92 mm connectors and a frequency range of DC to 40 GHz.

The 2K series is available with fail-safe, latching self cut-off, or pulse latching options. The 2K series has in-board mounting holes.

Weight (max.):	2.1 oz
RF Impedance:	50 ohms nominal
Operating Temperature (fail-safe):	-55°C to +85°C ambient
Operating Temperature (latching):	-25°C to +85°C ambient
Operating Life:	3,000,000 cycles min.
Switching Sequence:	Break before make

SPECIFICATIONS

Frequency	VSWR (typ.)	Insertion Loss (dB typ.)	Isolation (dB typ.)
DC-8 GHz	1.20	0.30	80
8-18 GHz	1.30	0.40	75
18-26.5 GHz	1.60	0.60	70
26.5-36 GHz	1.80	0.80	60
36-40 GHz	2.00	0.80	50

Actuator Current (typical)	12Vdc	15 Vdc	24 Vdc	28Vdc
Fail-safe	300mA	240mA	150mA	135mA
Latching	200mA	155mA	100mA	95mA

If reduced coil current is required, please contact rfsales@ducommun.com.

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	Fail-safe A - Standard C - Indicators B - Diodes D - Diodes, Indicators Low Input Drivers with: High Input Drivers with: E - Diodes EH - Diodes F - Diodes, Indicators FH - Diodes, Indicators		Pulse Latching T - Standard U - Diodes V - Indicators W - Diodes, Indicators
	Latching Self Cut-Off G - Diodes H - Diodes, Indicators Low Input Drivers with: High Input Drivers with: J - Diodes JH - Diodes K - Diodes, Indicators KH - Diodes, Indicators		OPTION 6 TERMINALS 1 - Solder Terminals 3 - Other (Specify) 4 - Sub Miniature D-Shell Connector (pin - out see page 150)

ADDITIONAL OPTIONS

OPTION 7 STANDARD OPTIONS
1 - Moisture Seal 2 - High Temperature (125° C) 3 - Moisture Seal & High Temperature (125° C)
OPTION 8 BRACKETS
No Additional Brackets Offered
OPTION 9 BODIES
R - See Page 181

For additional options, please contact rfsales@ducommun.com for part numbers.

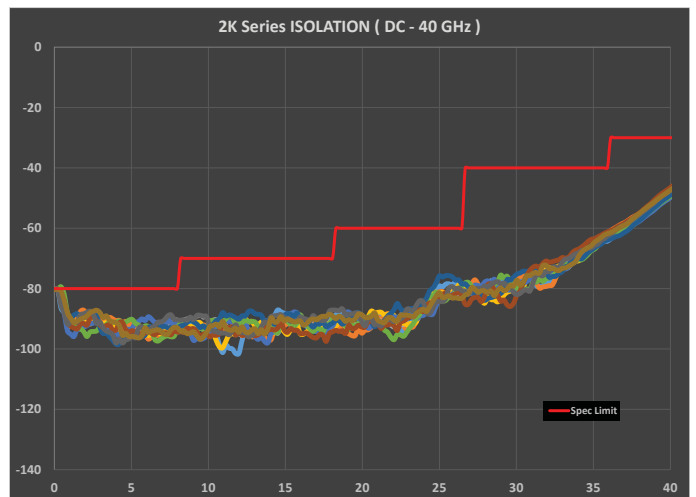
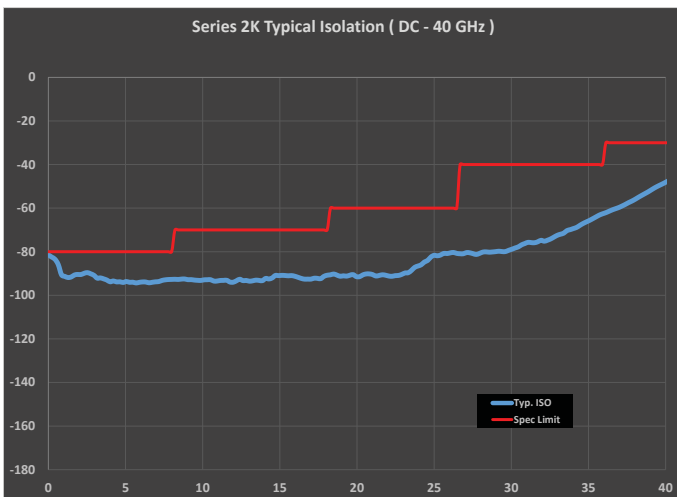
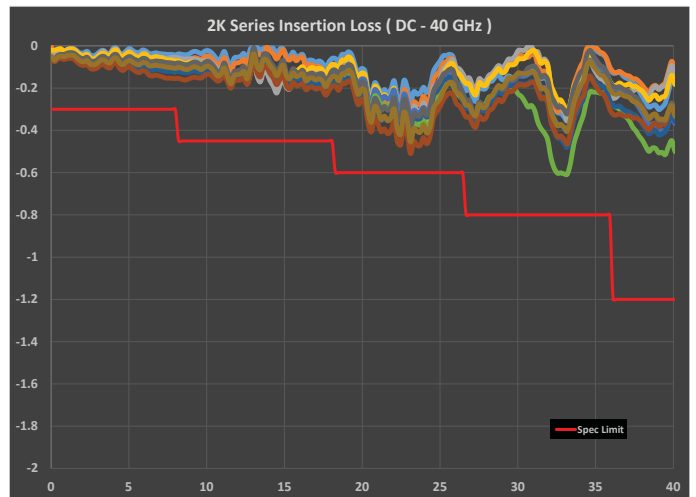
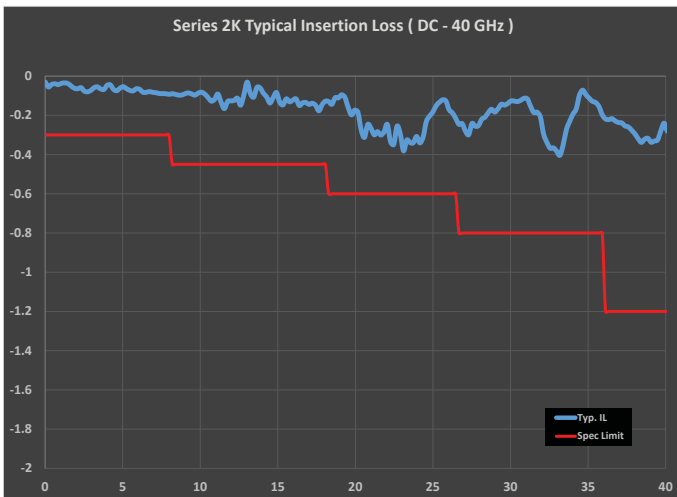
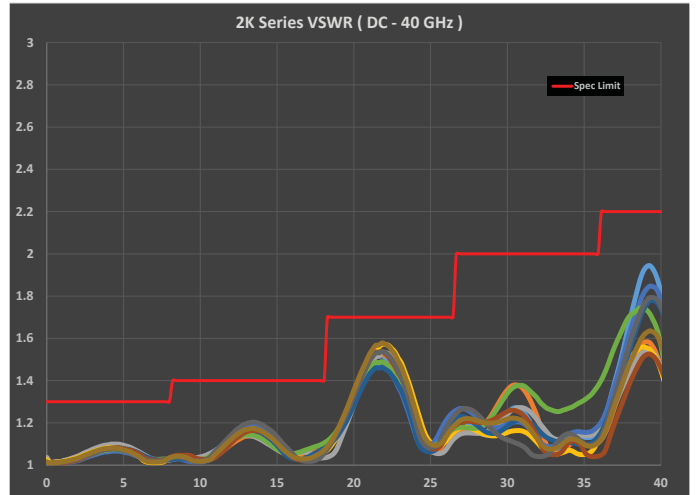
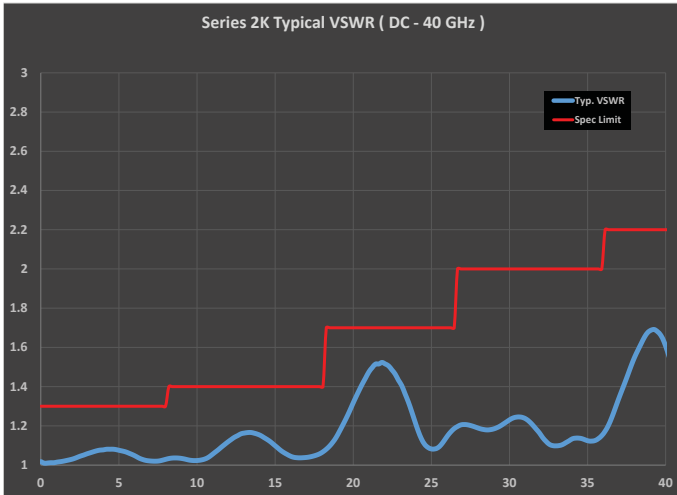
2K

Option 2 Series	Option 3 Voltage	Option 4 Actuator	Option 5 Polarity	Option 6 Terminals	Option 7 Standard Options	Option 8 Brackets	Option 9 Bodies
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Typical RF Performance Curves

Batch RF Performance (10 switches)



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DC TERMINAL FUNCTION

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	N/A	+V SW	N/A
2	N/A	N/A	C RTN	C+/-	C RTN	C+/-
3	AV	AV -	L	AV 1-/+	L 1	PV 1-/+
4	AV	AV +	+ V SW	AV 2-/+	L 2	PV 2-/+

SCHEMATICS

Pages 166-177						
	S1, S2	S3	S4	S5	S6	S8, S9

Please Note: Schematics may include optional indicator contacts. If your actuator option does not include indicator contacts, omit them from the schematic.

INDICATORS

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

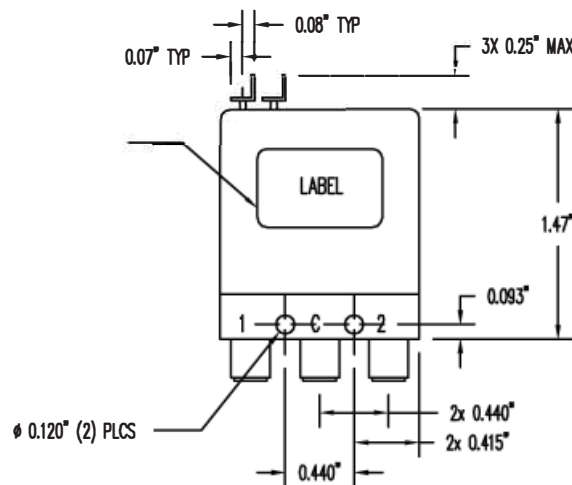
See Page 192 for Legend of Terms and Tolerances.
 See Page 177 for Logic & BCD Truth Table.

AVAILABLE OPTIONS* OUTLINE DRAWING DIMENSION "A"

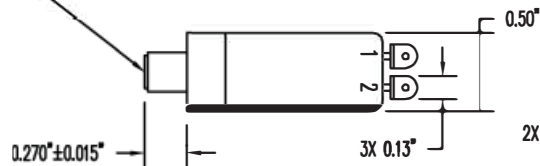
A, B, C, T	1.25
D, U	1.50
E, EH, F, FH	1.83
J, JH, K, KH	1.83
G, H, V, W	1.83

Contact rfsales@ducommun.com for dimension "A" when multi-pin connector is desired.

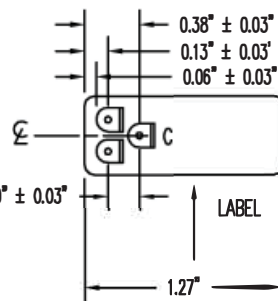
FRONT VIEW



3X 2.92MM JACK



SIDE VIEW



TOP VIEW

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