Ducommun.com



DC to 40 GHz Coaxial Switches RF / MICROWAVE



Ducommun Coaxial Switch Heritage

Ducommun's coaxial switch heritage began with Jay-El and Dynatech (DMT), founded in 1969 and acquired by the company in the early 1990's. To further strengthen its product offering, Ducommun subsequently acquired DB Products (DBP) in 2004 and WiseWave Technologies in 2006.

Today Ducommun serves the avionics, commercial, industrial, defense, medical, telecommunications and space up-link & down-link market sectors with a wide range of coaxial switch products.

Customers choose Ducommun's switch products for our unique and comprehensive understanding of electromechanical switch principals, along with a singular dedication to reliability, quality and customer care.



For more information, contact our sales team at 310.513.7200 or rfsales@ducommun.com



SPDT-40 GHz Switch - DK1 Series

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

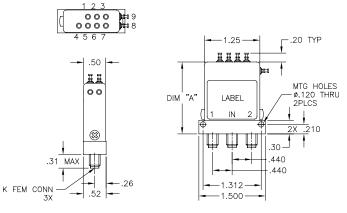
This series is available with failsafe, latching self-cut-off or pulse latching functions.



Contact factory for RoHS compliant version

RF Imedance:	50 ohms nominal
Temperature Range:	-35°C to +85°C
Operating Life:	1,000,000 cycles
Switching Time:	15 mSec max
Switching Sequence:	Break before make

(testing and operation modes)



Specifications

Frequency	VSWR (max.)	Insertion Loss (dB max.)	lsolation (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)	12 Vdc	12-15 Vdc	20-24 Vdc	24-30 Vdc
Failsafe	240mA	300mA	200mA	140mA
Latching	141mA	176mA	109mA	88mA

Transfer-40 GHz Switch - TK4 Series

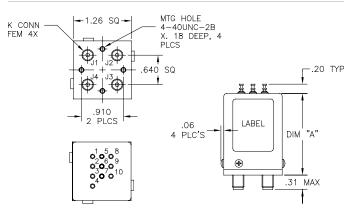
The TK4 series features K connectors and a frequency range of DC to 40 GHz.

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

Contact factory for RoHS compliant version



RF Imedance:	50 ohms nominal
Temperature Range:	-35°C to +85°C
Operating Life:	1,000,000 cycles
Switching Time:	15 mSec max
Switching Sequence:	Break before make
Environmental:	Designed in accordance to MIL-DTL-3928 (testing and operation modes)



Specifications

VSWR (max.)	Insertion Loss (dB max.)	lsolation (dB min.)
1.30	0.30	70
1.40	0.40	60
1.50	0.50	60
1.70	0.70	55
2.00	1.00	50
	(max.) 1.30 1.40 1.50 1.70	(max.) (dB max.) 1.30 0.30 1.40 0.40 1.50 0.50 1.70 0.70

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

For dimension "A", or if reduced coil current is required, please contact rfsales@ducommun.com.

SPDT-40 GHz Switch - DK3 Series

The DK3 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.

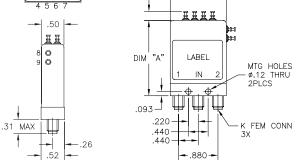


Contact factory for RoHS compliant version

> 123 000 0**0**00

RF Imedance:	50 ohms nominal
Temperature Range:	-35°C to +85°C
Operating Life:	1,000,000 cycles
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.)	lsolation (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)	12 Vdc	12-15 Vdc	20-24 Vdc	24-30 Vdc
Failsafe	240mA	300mA	200mA	140mA
Latching	141mA	176mA	109mA	88mA

Multi-Position-40 GHz Switch - QK Series

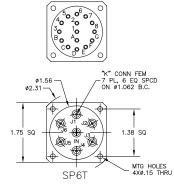
The QK series features K connectors and a frequency range of DC to 40 GHz.

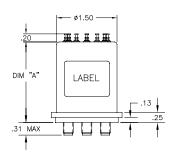
This series is available with normally open function.

This switch is also available in a terminated version with latching self-cut-off function.

Contact factory for RoHS compliant version

RF Imedance:	50 ohms nominal
Temperature Range:	-35°C to +85°C
Operating Life:	1,000,000 cycles
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.)	lsolation (dB min.)
DC-6 GHz	1.30	0.20	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	12	12-15	20-24	24-30
(typical)	Vdc	Vdc	Vdc	Vdc
Normally Open	180mA	180mA	130mA	140mA

For dimension "A", or if reduced coil current is required, please contact rfsales@ducommun.com.

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About Ducommun Incorporated

Ducommun is a global provider of manufacturing and engineering services, developing innovative electronic, engineered and structural solutions for complex applications in aerospace, defense and industrial markets. Our fullservice collaborative approach, broad capabilities and value-added services like new product introduction, supply chain strategies and program management deliver value for our customers and innovative solutions for their complex electronic and structural needs.

Ducommun operates manufacturing and engineering facilities in the U.S. and Thailand with quality systems certified to FAA, NASA, ISO 9001:2008, AS9100 REV C, and ANSI/ESD S20.20-2007 standards.

Vision

At Ducommun, our vision is to be our customers' #1 provider of innovative electronics and structures solutions.

Core Values

- Honesty
- Professionalism
- Respect
- Trust
- Teamwork

THE **DUCOMMUN** WAY **⋑**

Honesty • Professionalism • Respect • Trust • Teamwork



