XFC8 Transfer Switch

Double Pole, Double Throw

COBHAM

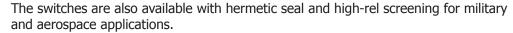
Data Sheet Revision Date: 12/16/2015

The most important thing we build is trust

DESCRIPTION:

The XF series of PIN diode transfer switches span the frequency range of 10MHz to 18GHz. The switches are available in a wide variety of standard frequency ranges from cost-effective narrowband to high-performance broadband.

Each switch incorporates a TTL-compatible driver for convenient system integration and operates from +5V and -12V to -18V DC power supplies. All switches incorporate DC blocks at the RF ports. Standard screened switches incorporate epoxy sealed lids and undergo a stringent yet cost effective screening cycle.



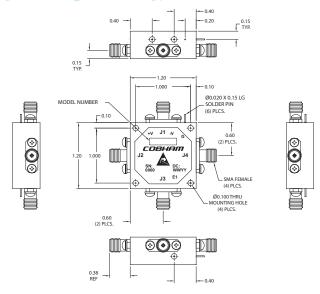


SPECIFICATIONS:

Parameter	Specification	Unit of Measure
Frequency Range	6 – 18	GHz
Insertion Loss (max)	3.0	dB
VSWR (max) (50 ohms)	2.0	ratio
Isolation (min)	65	dB
Switching Speed (max)	100	nsec
CW RF Power, Survival	30	dBm
P1dB*	27	dBm

^{*}Standard bias configuration

OUTLINE DRAWING:



OUTLINE CASE STYLE XF

FEATURES:

- TTL-compatible drivers for convenient system integration
- Operates on +5V or +15V and -5V or -15V DC power supplies (see ordering information)
- DC blocks at all RF ports
- Ruggedized construction
- Hermetic versions available
- All parts receive internal visual (per MIL-STD-883) and temp cycle (-40 °C to 100 °C, 10 cycles)
- Hi-Rel screening available upon request
- 30-day lead time on some configurations (contact factory for details)

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NOTES:

DC Bias: +5 V +/- 0.5 V @ 100 mA max (Standard) -15 V +/- 3 V @ 100 mA max

DC Bias: +5 V +/- 0.5 V @ 120 mA max (-5 option) -5 V +/- 0.5 V @ 100 mA max

DC Bias: +15 V +/- 3 V @ 120 mA max (-12 option) -15 V +/- 3 V @ 100 mA max

TTL 0: J1-J2, J3-J4 Low Loss

J1-J4, J2-J3 Isolation TTL 1: J1-J4, J2-J3 Low Loss

J1-J2, J3-J4 Isolation

Switching speed is defined as 50% TTL to 90% RF (t-on) and 50% TTL to 10% RF (t-off).

Finish: Gold Plate per MIL-G-45204 Chem film per MIL-C-5541

Weight: 35 g max

ENVIRONMENTAL SPECIFICATIONS*:

MIL-E-5400, MIL-STD-202, MIL-E-16400 Operating Temp: -40 °C to +71 °C Storage Temp: -65 °C to +125 °C

Humidity: MIL-STD-202F, M103, Cond B Shock: MIL-STD-202F, M213, Cond B Altitude: MIL-STD-202F, M105, Cond B Vibration: MIL-STD-202F, M204, Cond B Thermal Shock: MIL-STD-202F, M107, Cond A

* Compliant by design, verification optional

PART NUMBER ORDERING INFORMATION:

Add "-RC" suffix: RoHS-compliant Add "-H" suffix: Hermetic seal Add "-5" suffix: +/- 5V DC supplies

Add "-5-RC" suffix: +/- 5V DC supplies, RoHS-compliant Add "-5-H" suffix: +/- 5V DC supplies, Hermetic seal

Add "-12" suffix: +/- 15V DC supplies

Add "-12-RC" suffix: +/- 15V DC supplies, RoHS-compliant Add "-12-H" suffix: +/- 15V DC supplies, Hermetic seal

ISO 9001:2008 and AS9100 certified

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For further information please contact:

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Cobham Signal & Control Solutions 40 Industrial Way East Eatontown , NJ 07724 [USA] Phone: (732) 460-0212 Fax: (732) 460-0214 ASCS-sales@aeroflex.com