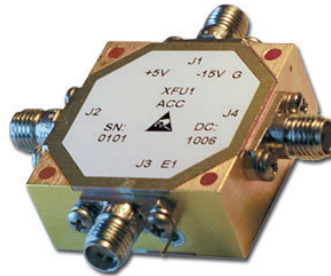


# XFC8 Transfer Switch



## Features:

- Incorporated TTL-compatible driver for convenient system integration and operates from +5 V and -15 V DC power supplies.
- DC blocks at all RF ports.
- Ruggedized construction.
- RoHS-compliant versions available.
- Hermetic versions available.



## Specifications:

Parameter	Specification	Units
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, Operating (max)	0.5	W

## 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

Control: 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).

## Environmental Specifications:

MIL-E-5400, MIL-STD-202, MIL-E-16400

Operating Temp: -55 °C to +85 °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

Temperature Cycle: MIL-STD-202F, M105C, Cond D

## Mechanical Specifications:

Case Style: XF Outline

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

Bias & Control Pins: ø0.02" x 0.15" long

Weight: 35 g max

Mounting: ø0.10" through holes  
 (4) places

## Screening:

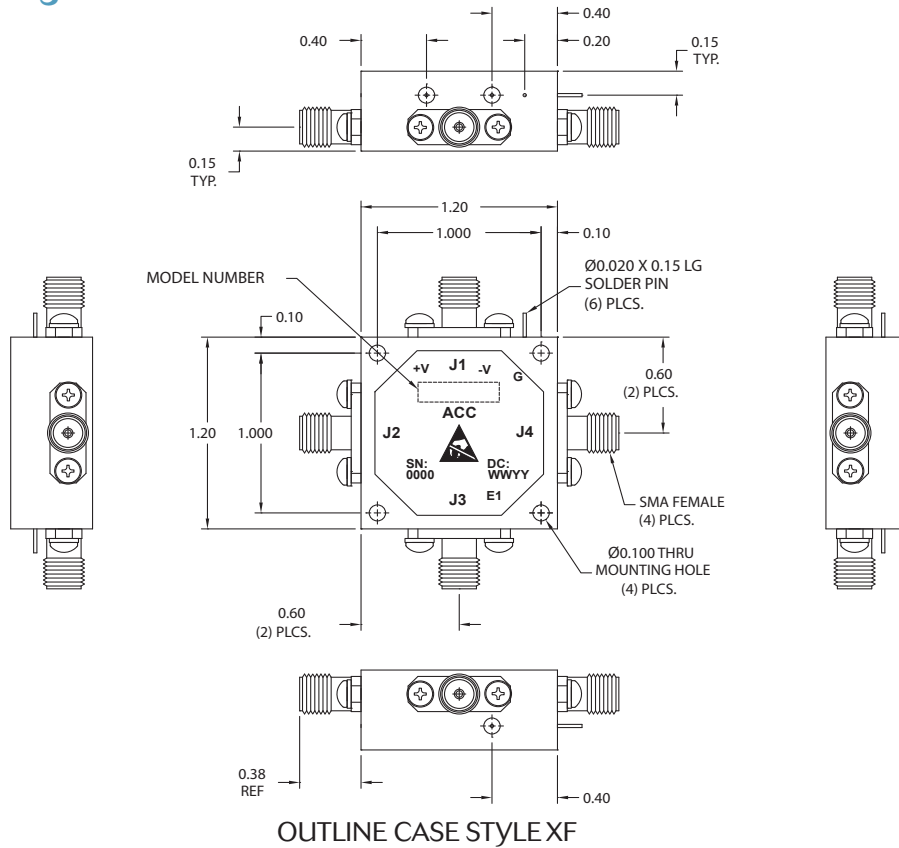
Internal Visual per MIL-STD-883, Method 2017

Temperature Cycle: -65 °C to +100 °C, 10 cycles

Hermetically-sealed switches are fine and gross leak checked per MIL-STD-883, Method 1014.

Optional High-Rel screening available upon request. Contact the factory to discuss your screening requirements.

**Outline Drawing:**



**Part Number Ordering Information:**

- Add "-RC" suffix: RoHS-compliant
- Add "-H" suffix: Hermetic seal
- Add "-5" suffix: +/-5 V DC supplies
- Add "-5-RC" suffix: +/-5 V DC supplies, RoHS-compliant
- Add "-5-H" suffix: +/-5 V DC supplies, Hermetic seal
- Add "-12" suffix: +/-15 V DC supplies
- Add "-12-RC" suffix: +/-15 V DC supplies, RoHS-compliant
- Add "-12-H" suffix: +/-15 V DC supplies, Hermetic seal

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