



Field Replaceable SMA SPST PIN Diode Switch From 10 MHz to 1,000 MHz Rated at +20 dBm

FMSW6258 is a Single Pole Single Throw (SPST) Reflective PIN Diode Switch that operates from 0.01 GHz to 1 GHz. Outstanding typical performance includes 1.0 dB typ insertion loss, 80 dB typ isolation, and 200 nsec max switching speed. The design incorporates TTL compatible driver circuitry for accurate logic control. Operational temperature range is -55°C to +85°C and dual voltage controls of +5 DC and -15 DC are required. The rugged package is designed to meet a series of MIL-STD-202F environmental conditions including humidity, shock, vibration, and temperature cycle. Package interfaces include solder terminals and female SMA connectors.

Electrical Specifications

Description	Min	Тур	Max	Units		
Frequency Range	10		1,000	MHz		
Impedance		50		Ohms		
Insertion Loss	1		dB			
Isolation		80		dB		
Rise Time			80	ns		
Switching Time			200	ns		
Input Power (CW)			0.1	Watts		
Survival Power			1	Watts		
Positive Operating Voltage		5		Vdc		
Negative Operating Voltage		-15		Vdc		
Current @ 5 Vdc		20		mA		
Current @ -15 Vdc		20		mA		
Operating Temperature	-55		+85	deg C		

Mechanical Specifications

 Length
 1.5 in [38.1 mm]

 Width
 1.5 in [38.1 mm]

 Height
 0.4 in [10.16 mm]

 Weight
 0.0575 lbs [26.08 g]

Finish Blue Paint

Configuration

Design Reflective, SPST RF Connector SMA Female RF Connector Option Field Replaceable Control Connector Solder Pin

Environmental Specifications

Temperature

Operating Range -55 to +85 deg C Storage Range -65 to +125 deg C

Humidity MIL-STD-202F, Method 103B, Condi-

tion B

Shock MIL-STD-202F, Method 213B, Condi-

tion B

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Features:

- SPST Reflective Switch
- 0.01 GHz to 1.0 GHz
- Insertion Loss 1 dB typ
- Isolation 80 dB typ
- Power Input 20 dBm CW max
- Field Replaceable Connectors

Applications:

- Test & Measurement
- Military Communication
- Commercial Communication
- Wireless Communications
- SATCOM
- Military Electronic Systems
- RF Test Stations

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Vibration Altitude Temperature Cycling **ESD Sensitivity**

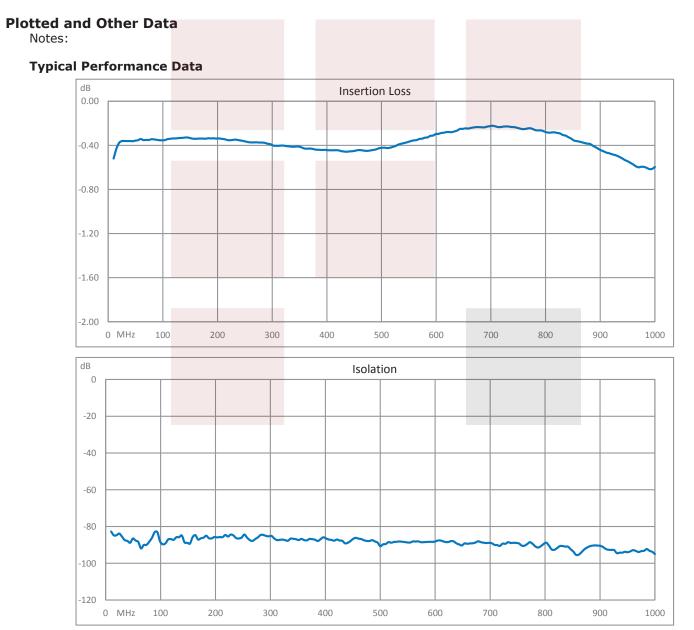
MIL-STD-202F, Method 204D, Condition B MIL-STD-202F, Method 105C, Condition B MIL-STD-202F, Method 107D, Condition A

ESD Sensitive Material, Transport material in Approved ESD bags. Handle only





Compliance Certifications (see product page for current document)







Field Replaceable SMA SPST PIN Diode Switch From 10 MHz to 1,000 MHz Rated at +20 dBm from Fairview Microwave is instock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

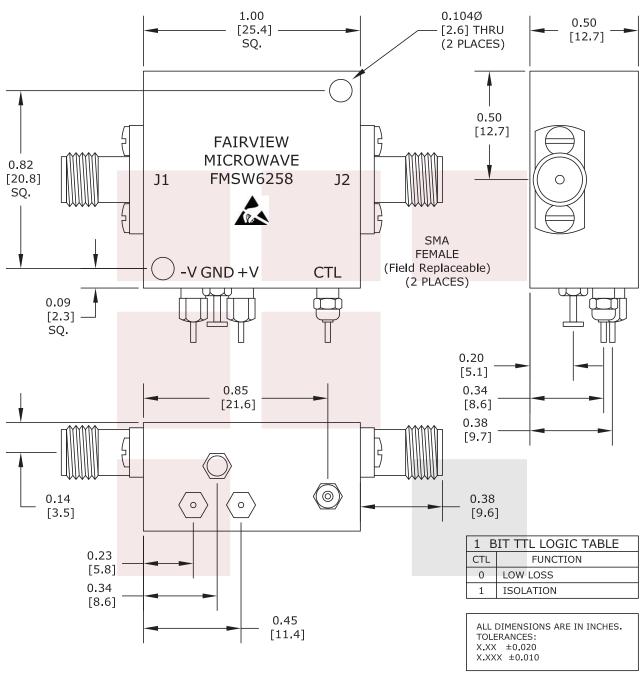
For additional information on this product, please click the following link: Field Replaceable SMA SPST PIN Diode Switch From 10 MHz to 1,000 MHz Rated at +20 dBm FMSW6258

URL: https://www.fairviewmicrowave.com/sma-spst-pin-diode-switch-1000-mhz-20-dbm-fmsw6258-p.aspx









 $[\]ensuremath{^{*}}$ THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE $\ensuremath{^{\#1}}$ ON TITLE BLOCK.

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Field Replaceable SMA SPST PIN Diode Switch From 10 MHz to 1,000 MHz Rated at +20 dBm	DWG NO FMSW6258			CAGE CODE 3FKR5			
	CAD FILE 080916	SHEET	SCAL	E N/A	SIZE A	2233	