

FMSW6214 DATA SHEET

Field Replaceable 2.92mm SPST PIN Diode Switch Absorptive From 500 MHz to 40 GHz Rated at +20 dBm

FMSW6214 is a Single Pole Single Throw (SPST) Absorptive PIN Diode Switch that operates from 0.5 GHz to 40 GHz. The output port is terminated in 50 ohms when switched in the isolation (off) state. Outstanding performance includes 5.5 dB max insertion loss, 80 dB typ isolation and 100 ns max switching speed. The design incorporates TTL compatible driver circuitry for accurate logic control. Operational temperature range is -40°C to +85°C and dual voltage controls of +5 VDC and -5 VDC 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 2.92mm connectors.

Electrical Specifications

Description	Min	Тур	Мах	Units
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Frequency Range	0.5		40	GHz
Impedance		50		Ohms
VSWR			2.5:1	
Insertion Loss			5.5	dB
Isolation	55			dB
Switching Time			100	ns
Input Power (CW)			0.1	Watts
Survival Power			1	Watts
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-5		Vdc
Current @ 5 Vdc		20		mA
Current @ -5 Vdc		66		mA
Operating Temperature	-40		+85	deg C

Mechanical Specifications

Shock

Vibration

Length	1 in [25.4 mm]
Width	1 in [25.4 mm]
Height	0.5 in [12.7 mm]
Weight	0.058 lbs [26.31 g]
Design	Absorptive, SPST
RF Connector	2.92mm Female
RF Connector Option	Field Replaceable
Control Connector	Solder Pin
Environmental Specific Temperature Operating Range Storage Range	ations -40 to +85 deg C -55 to +125 deg C
Humidity	MIL-STD-202F, METHOD

MIL-STD-202F, METHOD 103B COND. B MIL-STD-202F, METHOD 213B COND. B MIL-STD-202F, METHOD 204D COND. B



Features:

- SPST Absorptive Switch
- 0.5 GHz to 40.0 GHz
- High Speed Switching
- Insertion Loss 5.5 dB max
- Isolation 80 dB typ
- Power Input 20 dBm CW max
- Field Replaceable Connectors

Applications:

- Test & Measurement
- Military Communication
- Commercial Communication

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





Altitude Temperature Cycling ESD Sensitivity MIL-STD-202F, METHOD 105C COND. B MIL-STD-202F, METHOD 107D COND. A ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.

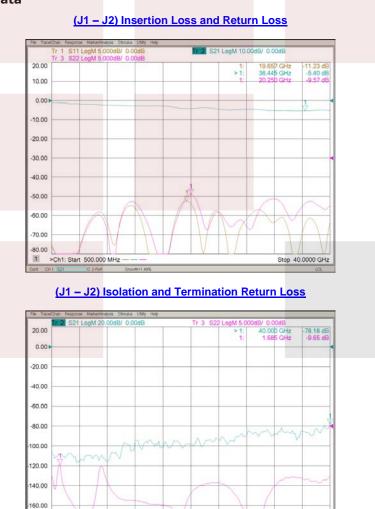


Compliance Certifications (visit www.FairviewMicrowave.com for current document) REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data



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180.00 Ch 1 Avg = 10

>Ch1: Start 500.000 MHz

1

Stop 40.0000 GHz

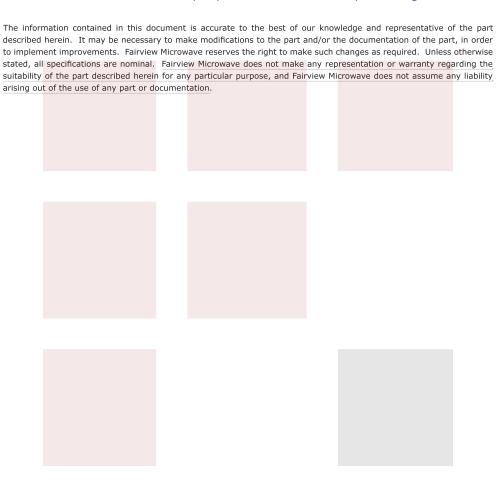




Field Replaceable 2.92mm SPST PIN Diode Switch Absorptive From 500 MHz to 40 GHz Rated at +20 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

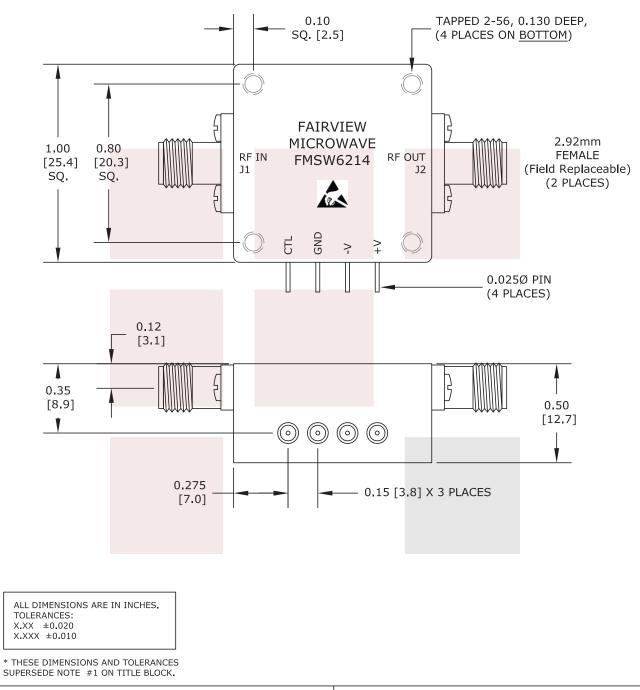
For additional information on this product, please click the following link: Field Replaceable 2.92mm SPST PIN Diode Switch Absorptive From 500 MHz to 40 GHz Rated at +20 dBm FMSW6214

URL: http://www.fairviewmicrowave.com/2.92mm-spst-pin-diode-switch-absorptive-40-ghz-20-dbm-fmsw6214-p.aspx









FAIRVIEW MICROWAVE INC.	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].						
Field Replaceable 2.92mm SPST PIN Diode Switch Absorptive From 500 MHz to 40 GHz Rated at +20 dBm	DWG NO FMSW6214			CAGE CODE 3FKR5			
	CAD FILE 041916	SHEET	SCAL	E N/A	SIZE A	2233	

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