

ERZ-SW1-0200-1000-2.5



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The ERZ-SW1-0200-1000-2.5 is a wideband SPST switch with low insertion loss and high isolation. The compact size and modularity makes it ideal for a wide range of applications.

Main Features:

- Frequency Range: 2 to 10 GHz.
- Typical values: I.L: 1.5 dB, Isolation 80 dB
- RF connectors (I/O): SMA
- Solder filtered pins for DC connection
- Solid State reflective switch
- Gold platted compact aluminum housing
- Hi-reliability and dedicated screening/ environmental tests available under request

Typical applications:

- Industrial / Laboratory
- Satcom / Telecom
- Space / Aerospace / Military

Performance

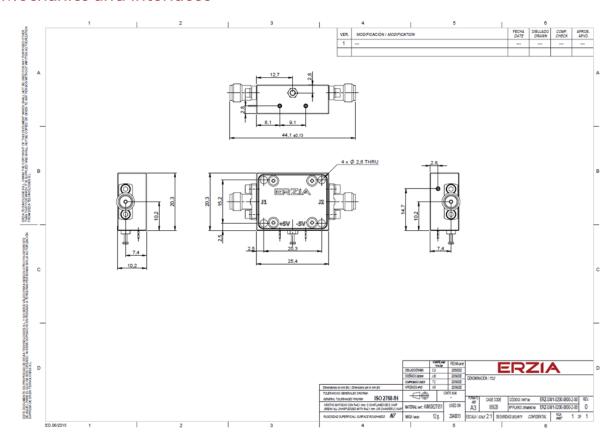
Parameter	Value			Units
	Min	Тур	Max	
Frequency	2	-	10	GHz
Insertion Loss	-	1.5	2	dB
Isolation	70	80	-	dB
Switching Time	-	25	-	ns
VSWR input	-	1.3:1	1.5:1	-
VSWR output	1	1.3:1	1.5:1	-
Positive Power Supply	-	5 (30mA)	-	VDC
Negative Power Supply	-	-5 (15 mA)	-	VDC
RF Connectors	SMA Female IN/OUT			-

Specifications at a case temperature of 25°C unless otherwise indicated



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Mechanics and Interfaces



Parameter	Value	
Size	25.4x20.32x10.16 mm	
Weight	15g	
RF Input Connector (J1)	SMA Female	
RF Output Connector (J2)	SMA Female	
DC Connectors (+5V / -5 V)	Solder Pin	
GND Connector	Solder Pin	
	Solder Pin	
Control	TTL driver, inverting logic:	
Control	Logic 0: Isolation	
	Logic 1: Insertion loss	



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Absolute Maximum Ratings

Condition	Value		
DC Voltage	-15 V / +5.5 V		
Maximum Input Power (CW)	+23 dBm		
Operation temperature (at case)	-45 to 85 °C		
Storage temperature	-55 to 125 °C		

- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Environmental Specifications (By Design)

Operating Temperature: -45 to +85 °C (MIL-STD-810F, method 520.2)

Storage Temperature: -55 to 125 °C (MIL-STD-810F, method 520.2)

Vibration: 8g rms (MIL-STD-810F, method 514.5)

Shock: 20g,11ms,saw-tooth (MIL-STD-810F, method 516.5)

Acceleration: 15g (MIL-STD-810F, method 513.5)

RoHS & REACH Compliance

This part is compliant with EU 2011/65/UE RoHS (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment) and REACH (Registration, Evaluation, Authorization and restriction of Chemical substances) directives.







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Documentation and Test Reports

All modules are at least delivered with: Electrical Test Report, Certificate of Conformance, Certificate of Acceptance and Origin. Optionally, units can be environmentally tested (temperature, vibration...).

Option (HS): Heat Sink

A heat sink (HS) can be provided to allow the operation of Power Amplifiers. Please note that most power amplifiers need heat sink or appropriate heat dissipation strategy.

Space / Military Usage

Most of ERZIA's products are based on rad-hard technologies and can be manufactured and integrated according to MIL / ECSS or specific hi-rel standard-screening for space, aeronautics, military or specific hi-reliability usage.

Customization and Extended Performances

ERZIA can fully design or adapt one of the existing RF amplifiers designs according to your specifications. Please contact us for additional information.



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