

SP2T Switch

ERZ-SW2-0030-0300-2



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The ERZ-SW2-0030-0300-2 is a wideband SPDT 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: 0.3 to 3 GHz.

• Typical values: I.L: 1.5 dB, Isolation 65 dB

• RF connectors (I/O): SMA

• Solder pins for DC and control connection

Solid State reflective switch

· 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	0.3	-	3	GHz
Insertion Loss	-	1.5	2	dB
Isolation	50	65	80	dB
Switching Time	-	450	-	ns
VSWR input	-	1.2:1	1.5:1	-
VSWR output	-	1.3:1	1.5:1	-
DC Voltage	-	5	-	VDC
Control Voltage (TTL)	0	-	3	VDC
RF Connectors	SMA Female IN/OUT			-

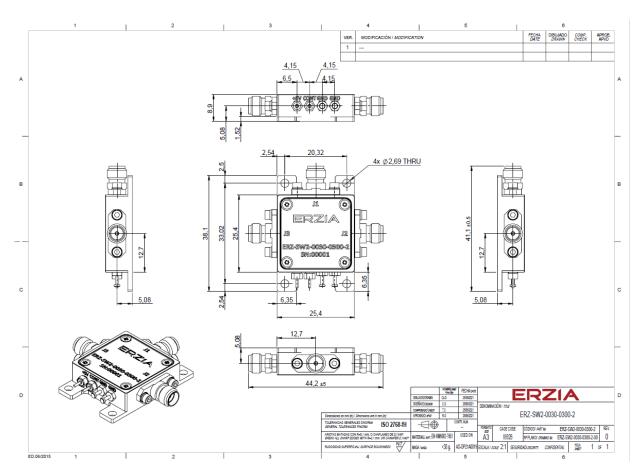
Specifications at a case temperature of 25°C unless otherwise indicated





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Mechanics and Interfaces



Parameter	Value		
Size	25.4x25.4x8.9 mm		
Weight	21 grams +/- 10%		
RF Connectors	SMA Female		
DC and GND Connectors	Filtered Pins		
CONT Connector	Filtered Pin		
	Single TTL (CONT)		
	"1"=1±10uA,VIH=+2.7V, J1→J3		
	"0"=1±10uA,VIH=+0.5V, J1→J2		





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Absolute Maximum Ratings

Condition	Value	
DC / CONT Voltage	5.5 V / 3.3 V	
Maximum Input Power (CW)	27 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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