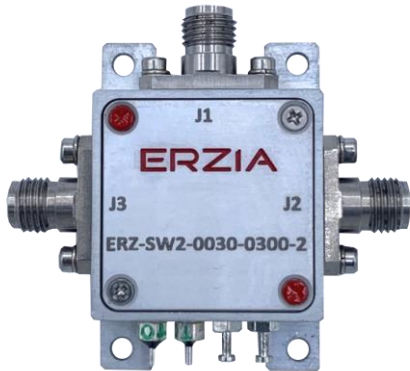




Main Features:

- 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

ERZ-SW2-0030-0300-2

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.

Typical applications:

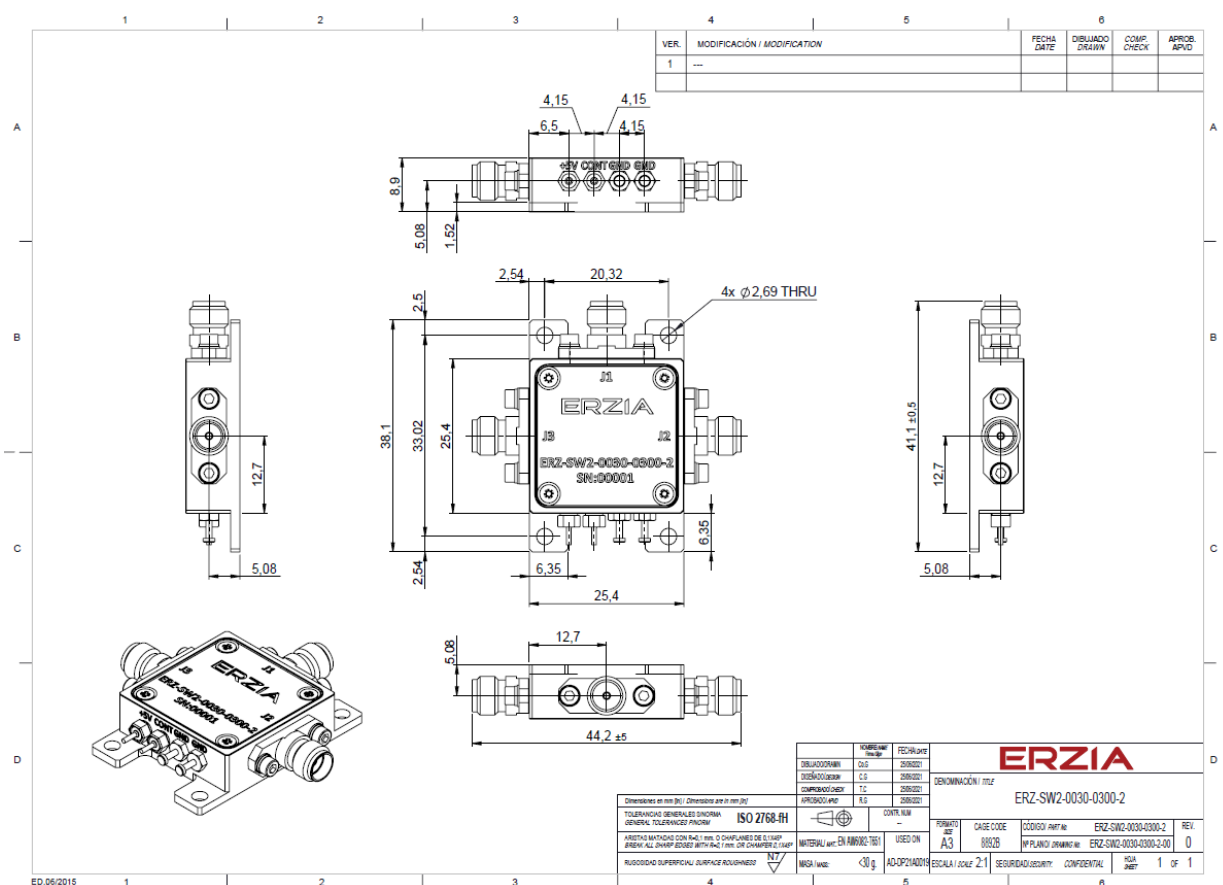
- Industrial / Laboratory
- Satcom / Telecom
- Space / Aerospace

Performance

Parameter	Value			Units
	Min	Typ	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

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" = $1 \pm 10 \mu A$, $V_{IH} = +2.7V$, J1 $\rightarrow$ J3 "0" = $1 \pm 10 \mu A$, $V_{IH} = +0.5V$, J1 $\rightarrow$ J2

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.



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 / Hi-Rel 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, 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.

ERZIA

20260818_rev1.1

Copyright © 2024 ERZIA Technologies S.L. All rights reserved. This information is commercial and indicative, subject to change without notice