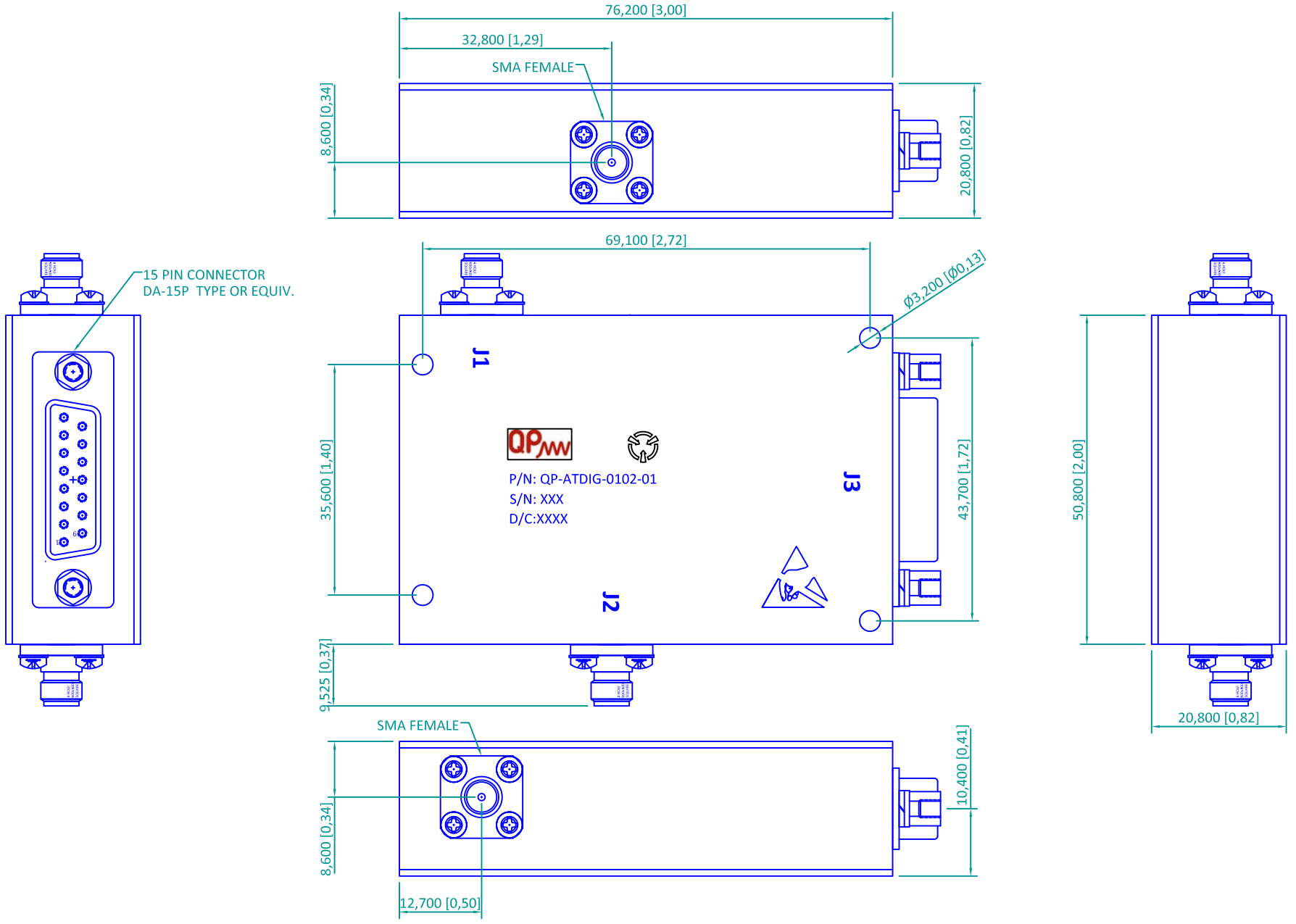

ALL DIMENSIONS SHOWN ARE IN mm (inch)

ELECTRICAL SPECIFICATIONS:

FREQUENCY RANGE:	1 - 2 GHz
ATTENUATION RANGE:	64dB
ATTENUATION WORD:	11BIT (**)
ATTENUATION STEP:	0,03125dB
ATTENUATION FLATNESS:	±1,6dB FROM 0 TO 64dB
ATTENUATION ACCURACY:	±1,0dB FROM 0 TO 64dB
TEMP. DRIFT: (-20ºC TO 70 ºC)	±0,75dB FROM 0 TO 64dB
MONOTONICITY:	YES
INSERTION LOSS:	1,6dB max.
VSWR:	1,6:1 max.
SWITCHING TIME:	ON 500nS Max / OFF 250nS Max
	RISE 150nS Max / FALL 100nS MaX
	No RF Overshooting during Switching

Optimized to minimize glitches during intermediary stages.

POWER HANDLING CAPACITY: +20dBm CW or PEAK Max.

LOGIC "0" (BIT OFF):	-0.3 TO +0.8 V
LOGIC "1" (BIT ON):	+2.0 TO +5.0 V
POWER SUPPLY REQUIREMENTS:	+12 to +15V, 90 mA
	-12 to -15V, 20 mA
POWER SUPPLY REJECTION:	Less than 0,1 dB/volt change in either supply.

CONNECTORS: J1, J2 - SMA FEMALE, STAINLESS STEEL

J3 - DA-15P TYPE OR EQUIV,: YELLOW CHROMATE OVER NICKEL

J3 PIN FUNCTIONS: #1- 0.06 dB #9- 4 dB
#2- 0.13 dB #10- 8 dB
#3- Strobe Latch(*) #11- 16 dB
#4- GND #12- 32 dB
#5- 0.25 dB #13- +12 to +15 V
#6- 0.5 dB #14- -12 to -15 V
#7- 1 dB #15- 0.03 dB
#8- 2 dB

(*)Strobe latch for data input, Attenuator responds to data input when logic "0" is applied. Attenuator latched to data input when logic "1" is applied.

(**)For 8-bit Operation Pins:1, 2 & 15 should be connected to ground.

FINISH: NICKEL PLATING

ENVIRONMENTAL RATINGS

- TEMPERATURE:	-40ºC TO +85ºC (OPERATING)
	-55ºC TO +125ºC (STORAGE)
- HUMIDITY:	MIL-STD-202F, METHOD 103B COND. B
- SHOCK:	MIL-STD-202F, METHOD 213B COND. B
- VIBRATION:	MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE:	MIL-STD-202F, METHOD 105C COND. B
- TEMP. SHOCK:	MIL-STD-202F, METHOD 107D COND. A

CAUTION
STATIC SENSITIVE DEVICE

NOTE: The above specifications are subject to change or revision. Specifications are at 25ºC unless stated otherwise

QP microWAVE
CÓLQUIDE 6
28230 LAS ROZAS
MADRID, SPAIN

APPROVALS	DATE	SIGNED
DRAW	13/06/13	AGI
CHECKED	13/06/13	DVI
APROBADO		

DESCRIPTION: **DIGITAL ATTENUATOR 1 - 2 GHZ**

CODE: **QP-ATDIG-0102-01**

REV.: 001

SHEET: 1 OF 1