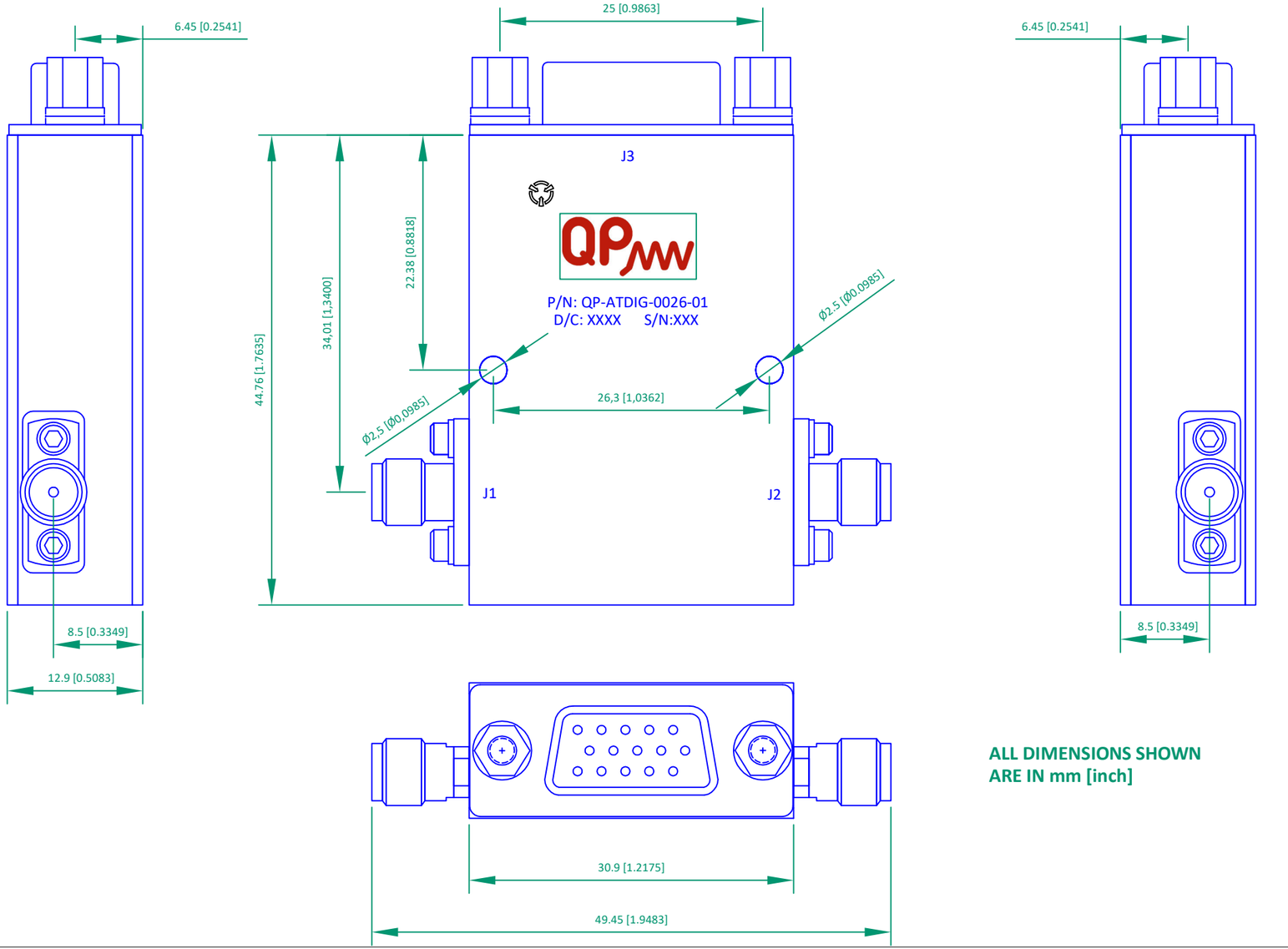

ALL DIMENSIONS SHOWN ARE IN mm [inch]

ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE:	0.5 - 26 GHz
ATTENUATION RANGE:	94 dB
ATTENUATION WORD:	8 BITS
ATTENUATION STEP:	0.5 dB
INSERTION LOSS:	4.5 dB MAX. @ 0.5 - 2 GHz
	5.5 dB MAX. @ 2 - 6 GHz
	7 dB MAX. @ 6 - 12 GHz
	8.5 dB MAX. @ 12 - 18 GHz
	12 dB MAX. @ 18 - 26 GHz
ATTENUATION ACCURACY*:	±0.5 dB @ 0.5 - 20-dB ATT STATES
	±1 dB @ 20.5 - 40-dB ATT STATES
	±2 dB @ 40.5 - 60-dB ATT STATES
	±3 dB @ 60.5 - 70-dB ATT STATES
	±4 dB @ 70.5 - 80-dB ATT STATES
	±4 dB @ 80.5 - 94-dB ATT STATES & f<15 GHz
TEMPERATURE DRIFT:	0.02 dB/ºC
GUARANTEED MONOTONICITY:	UP TO 80-dB ATT STATE @ f<10 GHz
	UP TO 60-dB ATT STATE @ f<18 GHz
	UP TO 50-dB ATT STATE @ f<26 GHz

VSWR:	1.5:1 TYP.
	2.4:1 MAX.
IIP3 @ Pin=0 dBm:	40 dBm MIN.
IP1dB:	20 dBm MIN.
SWITCHING TIME:	125 ns TYP.
	300 ns MAX.
RF INPUT POWER:	+25 dBm CW MAX.
CONNECTORS:	J1, J2 - SMA FEMALE, STAINLESS STEEL
	J3 - DE15P MALE
POWER SUPPLY:	+12V, 25 mA (w/o RF), -12V, 25 mA (w/o RF)
DIGITAL CONTROL:	POSITIVE LVTTL LOGIC

PIN FUNCTIONS:		
P1: ATT Control A1	P9: GND
P2: ATT Control A2	P10: EN**
P3: ATT Control A3	P11: +12V
P4: ATT Control A4	P12: +12V
P5: ATT Control A5	P13: GND
P6: ATT Control A6	P14: -12V
P7: ATT Control A7	P15: -12V
P8: ATT Control A8	

ENVIRONMENTAL RATINGS

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

* Referenced to insertion loss

** EN can be also used as a latch signal as long as attenuation data is available 20 ns prior to a rising EN edge.

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
28231 LAS ROZAS
MADRID, SPAIN

APPROVALS	DATE	SIGNED
DRAWN	14/02/20	BME
CHECKED	14/02/20	BME
APPROVED	14/02/20	JAV

DESCRIPTION: DIGITAL ATTENUATOR 0.5-26 GHz

CODE: QP-ATDIG-0026-01

REV.: 000

SHEET: 1 OF 1