



ALL DIMENSIONS SHOWN ARE IN mm

ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE: 0.05 - 18 GHz
 ATTENUATION RANGE: 63 dB
 ATTENUATION WORD: 7 BITS
 ATTENUATION STEP: 0.5 dB
 INSERTION LOSS: 6.5 dB MAX. @ 18 GHz
 ATTENUATION ACCURACY*: ±0.5 dB @ 0.5 - 20-dB ATT STATES
 ±1 dB @ 20.5 - 40-dB ATT STATES
 ±1.5 dB @ 40.5 - 63-dB ATT STATES
 TEMPERATURE DRIFT: 0.02 dB/°C
 MONOTONICITY: YES
 VSWR: 1.5:1 TYP.
 2.2:1 MAX.
 IIP3 @ Pin=0 dBm: 35 dBm MIN.
 IP1dB: 20 dBm MIN.
 SWITCHING TIME: 4 µs TYP.
 6 µs MAX.
 RF INPUT POWER: +25 dBm CW MAX.

CONNECTORS: J1, J2 - SMA FEMALE, STAINLESS STEEL
 J3 - DE15P MALE
 POWER SUPPLY: +4V TO +12V, 25 mA
 -4V TO -12V, 25 mA
 DIGITAL CONTROL: POSITIVE LVTTTL LOGIC
 PIN FUNCTIONS:
 P1: ATT Control: A1
 P2: ATT Control: A2
 P3: ATT Control: A3
 P4: ATT Control: A4
 P5: ATT Control: A5
 P6: ATT Control: A6
 P7: ATT Control: A7
 P8: N/C
 P9: GND
 P10: EN**
 P11: +12V
 P12: +12V
 P13: GND
 P14: -12V
 P15: -12V

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +85°C (OPERATING)
 -55°C TO +125°C (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

PRELIMINARY DATASHEET



*Referenced to insertion loss
 **EN is active high. It can be also used as a latch signal as long as attenuation data is available 20 ns prior to a rising EN edge.

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

<p>QP microWAVE CÓLQUIDE 6 28231 LAS ROZAS MADRID, SPAIN</p>	APPROVALS	DATE	SIGNED	DESCRIPTION: 0.05-18 GHz 63-dB DIGITAL ATTENUATOR	REV.:	SHEET:
	DRAW	21/10/21	BME	QP-ATDIG-0018-06	000	1 OF 1
	CHECKED	21/10/21	BME			
APPROVED	21/10/21	JAV				