



ALL DIMENSIONS SHOWN ARE IN mm

**ELECTRICAL SPECIFICATIONS**

FREQUENCY RANGE: 1 - 26 GHz (functional up to 27 GHz)  
 ATTENUATION RANGE: 30 dB  
 ATTENUATION WORD: 12 BITS  
 ATTENUATION STEP: 0.0075 dB  
 INSERTION LOSS: 5 dB MAX. @ 18 GHz  
 6 dB MAX. @ 26 GHz  
 ATTENUATION ACCURACY(\*): ±1 dB @ 17-19 GHz  
 MONOTONICITY: YES  
 VSWR: 2:1 TYP.  
 IIP3 @ Pin=0 dBm: 25 dBm TYP.  
 IP1dB: 20 dBm TYP.  
 SWITCHING TIME(\*\*): 2.5 µs TYP. from MIN. to MAX. ATTENUATION  
 1.25 µs TYP. from MAX. to MIN. ATTENUATION  
 OVERSHOOTING: <0.6 dB  
 RF INPUT POWER: +24 dBm CW MAX.

**CONNECTORS:**  
**PIN FUNCTIONS:**

J1, J2 - SMA FEMALE, STAINLESS STEEL  
 J3 - DE9P MALE  
 P1: NC  
 P2: +5V  
 P3: LATCH\_IN (OPTIONAL)  
 P4: GND  
 P5: MOSI  
 P6: SCK  
 P7: CS\_ATT  
 P8: -5V  
 P9: NC

**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, including flatness  
 (\*\*) 50% LATCH\_IN signal to 10% final RF power level

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

	<b>QP microWAVE</b> CÓLQUIDE 6 28231 LAS ROZAS MADRID, SPAIN	APPROVALS	DATE	SIGNED	DESCRIPTION: 1-26 GHz 30-dB DIGITAL ATTENUATOR	REV.:	SHEET:
		DRAW	10/02/22	BME	CODE: QP-ATDIG-0126-01	00B	1 OF 1
		CHECKED	10/02/22	BME			
		APPROVED	10/02/22	JAV			