



ALL DIMENSIONS SHOWN
ARE IN mm

ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE: 2-32 GHz
 ATTENUATION RANGE: 63 dB
 ATTENUATION WORD: 6 BITS
 ATTENUATION STEP: 1 dB
 INSERTION LOSS: 10 dB MAX. @ 2 - 18 GHz
 15 dB MAX. @ 18 - 32 GHz
 ATTENUATION ACCURACY*: ±2 dB @ 0 - 31 dB
 ±5 dB @ 32 - 63 dB
 VSWR: 2.0:1 TYP.
 2.5:1 MAX.
 SWITCHING TIME: 100 ns
 RF INPUT POWER: 25 dBm MAX.

*Referenced to insertion loss

LOGIC "0" (BIT ON): 0 TO 0.8 V
 LOGIC "1" (BIT OFF): 2 TO 5 V
 POWER SUPPLY: +VCC: +5V, 50 mA; -VCC: -5V, 50 mA
 CONNECTORS: J1, J2 - 2.92mm FEMALE, STAINLESS STEEL
 PIN FUNCTIONS:
 -VCC
 P0 - 1 dB
 P1 - 2 dB
 P2 - 4 dB
 P3 - 8 dB
 P4 - 16 dB
 P5 - 32 dB
 +VCC
 GND

Control bits						Attenuation
P0	P1	P2	P3	P4	P5	dB
1	1	1	1	1	1	0
0	1	1	1	1	1	1
0	0	1	1	1	1	3
0	0	0	1	1	1	7
0	0	0	0	1	1	15
0	0	0	0	0	1	31
0	0	0	0	0	0	63

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

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



QP microWAVE
 CÓLQUIDE 6
 28231 LAS ROZAS
 MADRID, SPAIN

APPROVALS	DATE	SIGNED	DESCRIPTION:	REV.:	
DRAW	06/02/17	BME	DIGITAL ATTENUATOR 2 - 32 GHz		
CHECKED	06/02/17	JAV	QP-ATDIG-0232-01	002	1 DE 1
APROBADO	06/02/17	JAV			