



ALL DIMENSIONS SHOWN ARE IN mm

ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE: 0.1 - 27 GHz
 ATTENUATION RANGE: 31 dB
 ATTENUATION WORD: 5 BITS
 ATTENUATION STEP: 1 dB
 INSERTION LOSS: 4.5 dB MAX. @ 18 GHz
 5.5 dB MAX. @ 27 GHz
 ATTENUATION ACCURACY*: ±1 dB @ 0 - 31 dB
 VSWR: 1.8:1 TYP.
 2.5:1 MAX.
 SWITCHING TIME: 200 ns TYP.
 RF INPUT POWER: 27 dBm MAX. CW

*Referenced to insertion loss

LOGIC "0" (BIT OFF): 0 ± 0.3 V
 LOGIC "1" (BIT ON): 3.3 ± 0.3 V
 POWER SUPPLY: +VCC: +3.3V, 50 mA; -VCC: -3.3V, 50 mA
 CONNECTORS: J1, J2 - SMA FEMALE, FIELD REPLACEABLE
 PIN FUNCTIONS:
 -VCC
 P0 - 1 dB
 P1 - 2 dB
 P2 - 4 dB
 P3 - 8 dB
 P4 - 16 dB
 +VCC

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

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

	APPROVALS	DATE	SIGNED	DESCRIPTION: DIGITAL ATTENUATOR 0.1 - 27 GHz	REV.:	SHEET:
	DRAW	27/08/18	BME	CODE: QP-ATDIG-0027-02	001	1 OF 1
	CHECKED	27/08/18	JAV			
	APROBADO	27/08/18	JAV			

QP microWAVE
 CÔLQUIDE 6
 28231 LAS ROZAS
 MADRID, SPAIN