



**ALL DIMENSIONS SHOWN ARE IN mm (inch)**

**ELECTRICAL SPECIFICATIONS:**

FREQUENCY RANGE: 2 -4 GHz  
 ATTENUATION RANGE: 64dB  
 ATTENUATION WORD: 11BIT (\*\*)  
 ATTENUATION STEP: 0,03125dB  
 ATTENUATION FLATNESS: ±1,6dB FROM 0 TO 64dB  
 ATTENUATION ACCURACY: ±1,0dB FROM 0 TO 64dB  
 TEMP. DRIFT: (-20°C TO 70 °C) ±0,75dB FROM 0 TO 64dB  
 MONOTONICITY: YES  
 INSERTION LOSS: 1,6dB max.  
 VSWR: 1,6:1 max.  
 SWITCHING TIME: ON 500ns Max / OFF 250ns Max  
 RISE 150ns Max / FALL 100ns Max  
 No RF Overshooting during Switching

LOGIC "0" (BIT OFF): -0.3 TO +0.8 V  
 LOGIC "1" (BIT ON): +2.0 TO +5.0 V  
 POWER SUPPLY REQUIREMENTS: +12 to +15V, 90 mA  
 POWER SUPPLY REJECTION: -12 to -15V, 20 mA  
 Less than 0,1 dB/volt change in either supply.  
 CONNECTORS: J1, J2 - SMA FEMALE, STAINLESS STEEL  
 J3 - DA-15P TYPE OR EQUIV.; YELLOW CHROMATE OVER NICKEL  
 J3 PIN FUNCTIONS:  
 #1- 0.06 dB #9- 4 dB  
 #2- 0.13 dB #10- 8 dB  
 #3- Strobe Latch(\*) #11- 16 dB  
 #4- GND #12- 32 dB  
 #5- 0.25 dB #13- +12 to +15 V  
 #6- 0.5 dB #14- -12 to -15 V  
 #7- 1 dB #15- 0.03 dB  
 #8- 2 dB

**ENVIRONMENTAL RATINGS**

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

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



APPROVALS		DATE	SIGNED	DESCRIPTION:	CODE:	REV.:	SHEET:
DRAWN		13/06/13	AGI	DIGITAL ATTENUATOR 2 - 4 GHz	QP-ATDIG-0204-01	000	1 DE 1
CHECKED		13/06/13	AGM				
APROBADO							



**QP microwave**  
 C/O LINDIE 6  
 28230 LAS ROZAS  
 MADRID, SPAIN

F

E

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