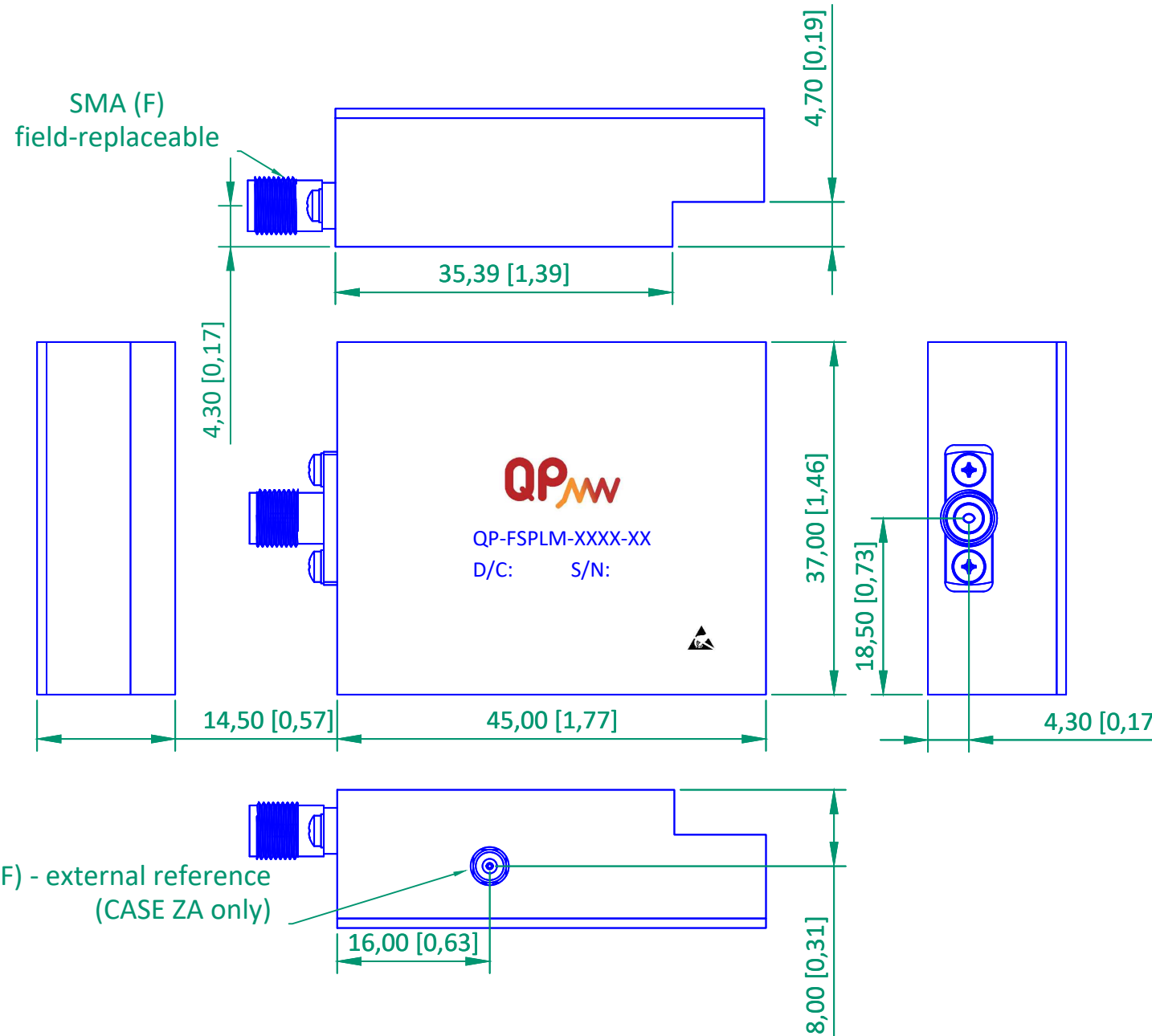


BOTTOM VIEW

ALL THE DIMENSIONS ARE SHOWN IN mm



ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE: 6-12 GHz
 FREQUENCY STEP: 1 Hz
 ATTENUATION RANGE: 31.5 dB
 ATTENUATION STEP: 0.5 dB
 SWITCHING TIME: 100 μs
 OUTPUT POWER: +15 dBm ± 1dB
 OUTPUT RETURN LOSSES: 14 dB
 HARMONIC LEVEL: -35 dBc min.
 SUBHARMONICS: N/A
 SPURIOUS LEVEL: -70 dBc typ. (Freq. multiple of 100 MHz)
 -40 dBc (Any frequency)

PHASE NOISE (Typical with 100 MHz external clock)

	@6 GHz	@9 GHz	@12 GHz	Unit
1 KHz	-96	-95	-90	dBc/Hz
10 KHz	-112	-108	-106	dBc/Hz
100 KHz	-114	-110	-108	dBc/Hz
1 MHz	-125	-122	-118	dBc/Hz
5 MHz	-140	-136	-134	dBc/Hz

TEMPERATURE STABILITY: ±0.28 ppm (INTERNAL CLK)
 AGING: ±3 ppm (20 years - INTERNAL CLK)
 SUPPLY VOLTAGE: +5 VDC ± 10%
 POWER CONSUMPTION: 3 W
 DIGITAL CONTROL: SPI
 OPTIONS: X=0 (INTERNAL CLK)
 X=1 (10 MHz OR 100 MHz EXTERNAL CLOCK SELECTABLE)

CONNECTORS: SMA (F)
 SAMTEC TFM 10x2
 MMCX (F)

PIN FUNCTIONS:
 P12: ENABLE P13: GND
 P14: SPI_CLK P15: GND
 P16: SPI_SDO P17: SPI_CS
 P18: SPI_SDI P19: +5 V
 P20: GND
 See frequency and attenuation programming in operating instructions

ENVIRONMENTAL RATINGS

- TEMPERATURE: -20°C TO +70°C (OPERATING)
 -40°C TO +85°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: 6 - 12 GHz FREQ. SYNTHESIZER	REV.:	SHEET:
		DRAW	14/09/22	CRU	CODE: QP-FSPLM-0612-X2	00C	1 OF 1
		CHECKED	14/09/22	BME			
		APPROVED	14/09/22	JAV			