



ELECTRICAL SPECIFICATIONS:

RF OUTPUT

FREQUENCY RANGE: 50 MHz - 40 GHz
 FREQ. STEP @ Fout<3 GHz: 0.02 Hz (MODE: FINE STEP)
 3 Hz (MODES: STD & SPUR FREE)
 SWITCHING TIME: < 100 μs
 30 μs (MODE: FAST & STD)
 OUTPUT POWER: +15 dBm Typ.
 OUTPUT RETURN LOSSES: 14 dB
 HARMONIC LEVEL: -30 dBc Typ.
 SUBHARMONIC LEVEL: -30 dBc Typ.
 SPURIOUS LEVEL: -60 dBc Typ.(MODE: SPUR FREE)

PHASE NOISE (Typ.)

	@1 GHz	@3 GHz	@10 GHz	@20 GHz	@40 GHz	Unit
1KHz	-100	-90	-80	-75	-68	dBc/Hz
10KHz	-110	-101	-92	-88	-82	dBc/Hz
100KHz	-112	-103	-92	-87	-81	dBc/Hz
1MHz	-142	-137	-128	-120	-113	dBc/Hz
5MHz	-148	-146	-140	-131	-123	dBc/Hz

DIGITAL OUTPUT

FREQUENCY RANGE: 300 kHz - 700 MHz
 AUX1/2 OUTPUT DIFFERENTIAL: LVCMOS, LVPECL, LVDS, HCSL
 AUX 3 OUTPUT SINGLE-ENDED: LVCMOS

INTERNAL REFERENCE

TCXO

ELECTRICAL

SUPPLY VOLTAGE: +7VDC ± 10%
 POWER CONSUMPTION: 15 W

INTERNAL FREQUENCY STABILITY

TEMPERATURE STABILITY: ±1 ppm
 AGING: ±3 ppm (20 years)

CONNECTORS

RF OUT: 2.92mm (F)
 REF IN1: BNC (F)
 REF IN2: BNC (F)
 AUX1, AUX2: SMA (F)
 AUX3: SMA (F)
 POWER/RS232/SPI: D-E 15 (M)
 CTRL: Reserved
 USB: Type Mini B receptacle (USB 2.0)
 ETHERNET: 10BaseT LAN interface

EXTERNAL REFERENCE

INPUT FREQUENCY: 10/100 MHz
 INPUT POWER: +5 dBm ± 10 dB

ENVIROMENTAL RATING:

TEMPERATURE RANGE: -20° TO +70°C
 IP CODE: IP67



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: SYNTHESIZER 50 MHz - 40 GHz	REV.:	SHEET:
		DRAW	13/11/18	CRU	QP-FSPLL-0040-01	004	1 DE 1
		CHECKED	13/11/18	BME			
APPROVED	13/11/18	JAV					