



### ESP Series

### Phase-Locked DRO Replacement

#### PRODUCT FEATURES

- Exceptionally low phase noise
- High-vibration tolerance, low power consumption

#### GENERAL CHARACTERISTICS

- Fixed Frequency: 50 MHz - 14 GHz
- Output Power: UP to +14 dBm
- Phase Noise (Fout=2.4 GHz): <-110 dBc/Hz @ 10 KHz
- Package: 2.25" x 2.25" x 0.6"

50 MHz - 14 GHz  
UP to +14 dBm  
<-110 dBc/Hz @ 10 KHz  
2.25" x 2.25" x 0.6"  
(57.2 x 57.2 x 15.2)mm

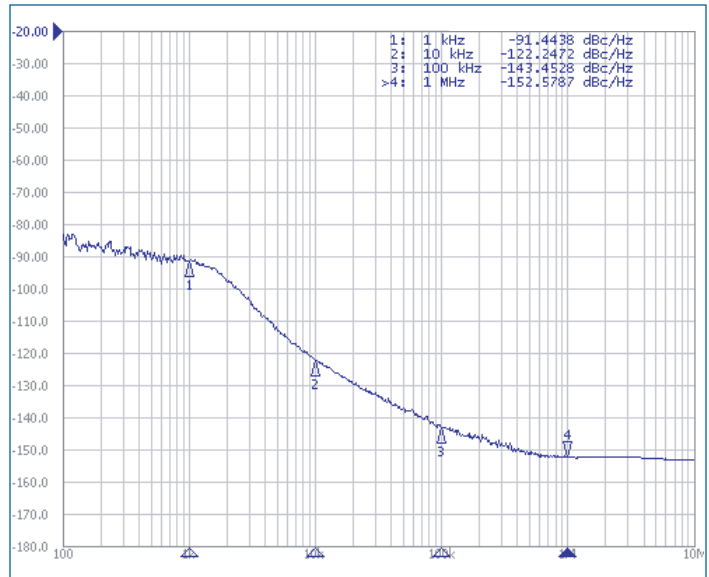


### Typical Performance for Select Units

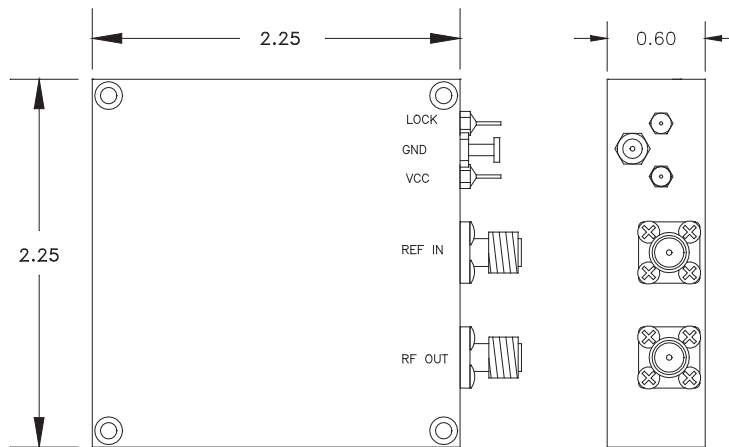
Model #	Power					Supply		
	Freq. (MHz)	Output (dBm)	Harmonics (dBc)	Phase Noise (dBc/Hz) 10 KHz	Spurious (dBc) 100KHz	Voltage (Vdc)	Current (mA)	
ESP-170-XX	170	7	-20	-120	-135	-75	12	225
ESP-500-XX	500	10	-25	-115	-135	-75	12	225
ESP-1100-XX	1100	13	-20	-122	-143	-70	5	225
ESP-1700-XX	1700	7	-20	-111	-138	-70	12	175
ESP-3000-XX	3000	13	-20	-98	-120	-70	15	250
ESP-4000-XX	4000	7	-20	-97	-117	-70	12	225
ESP-4500-XX	4500	10	-20	-96	-115	-70	15	225
ESP-5000-XX	5000	10	-20	-95	-115	-70	15	225
ESP-6500-XX	6500	7	-20	-93	-113	-60	12	200
ESP-7000-XX	7000	7	-20	-90	-110	-60	12	200
ESP-8000-XX	8000	10	-20	-90	-110	-60	12	250
ESP-8500-XX	8500	10	-20	-90	-110	-60	15	250
ESP-9000-XX	9000	7	-20	-88	-108	-55	12	225
ESP-10000-XX	10000	7	-20	-85	-105	-60	12	250
ESP-14000-XX	14000	7	-20	-85	-105	-60	12	250

\*Custom frequencies available. All specifications are typical unless otherwise specified and subject to change without notice.

### Phase Noise @ 1100 MHz



### Package



Note: All dimensions are in inches, unless otherwise specified

\*Drawing not to scale