



**LOW PHASE NOISE
PHASE LOCKED 6 CHANNELS OSCILLATOR**

- **VERY LOW PHASE NOISE**
- **LOW SPURIOUS**
- **COMPACT SIZE**
- **HIGH SWITCHING SPEED**
- **VIBRATION PROOF**

BSFX12 is a high reliability 6 channels phase locked X-band oscillator subsystem, intended for use mainly in onboard radar applications. This unit has good electrical performance even in harsh environmental conditions such as high vibration.

Electrical characteristics:

Frequency Band	9.21 - 9.39 GHz
Frequency stability	Typ. ± 5 ppm
Number of Channels	6
Control signal	TTL level BCD code
Static Phase Noise	-80 dBc/Hz @ 100Hz -100 dBc/Hz @ 1kHz -110 dBc/Hz @ 2kHz -115 dBc/Hz @ 10kHz -120 dBc/Hz Noise Floor
Phase Noise Under Vibration	-38 dBc/Hz @ 100Hz -60 dBc/Hz @ 1kHz -70 dBc/Hz @ 2kHz -115dBc/Hz @ 10kHz -120 dBc/Hz Noise Floor
Frequency Accuracy	± 50 kHz
Channel Switching Time	< 5 μ sec
Isolation Between Channels	70 dB (min)
Output Ports	4
Output Power	13 dBm ± 1 dB
Isolation Between Ports	40 dB
Operating Temp. Range	-40 to 71 °C
Spurious Harmonics	-30 dBc
Sub Harmonics	-50 dBc
Non-Harmonics	-80 dBc
Power Supply	+15 V
Current Consumption	< 1.2 A
Warm up time at -40 °C	150 sec
Weight	< 2.5 kg
Size	215(L) x 128(W) x 44(H)
Connectors for RF	SMA Female
For DC	Solder pin
For Logic Input	„D” type

Environmental specifications: APPLICABLE MIL-STD-810F