

### BP1 Series - Phase Locked Dielectric Resonator Oscillators (external reference)

Very Low Power Consumption

Low Phase Noise

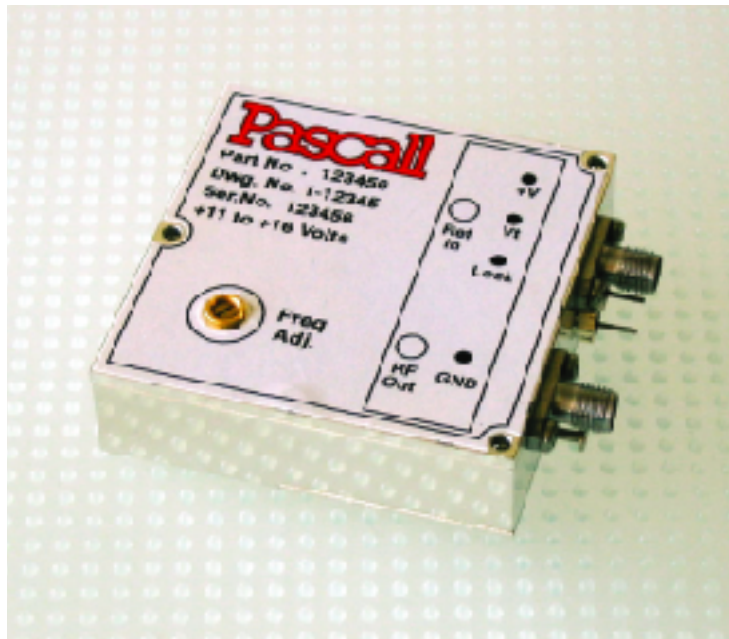
High Stability

High Reliability

Frequency 3.5 to 15.0 GHz

-55 to +85°C Range

Low Cost



Pascall Phase Locked Dielectric Resonator Oscillators are designed to meet the ever increasing demands of designers for high performance, stable oscillators requiring low dc input power.

The BP1 range of oscillators offer excellent noise, stability and output power whilst making low demands on the dc power source. This feature makes these components particularly suitable for equipment and applications where available power is limited or low heat generation critical.

Utilising well established surface mount technology and light weight alloy housings, these units are very robust and are suitable for most civil and military applications.

# BP1 Series - Phase Locked Dielectric Resonator Oscillators

(external reference)

Output frequency	3.5 to 15.0 GHz (to order see below)
Mechanical tuning range	+/- 25 MHz minimum
Reference frequency	50 to 200 MHz
Reference level	0 to +5dBm
RF output power	+13dBm +/- 0.5dB standard
RF output stability	+/- 1.0dB maximum over temperature range
Frequency Stability	same as reference frequency input
Phase Noise at 9.5GHz	1 KHz -108,    10 KHz -120,    100 KHz -120, 1 MHz -140    10 MHz -160    dBc/Hz
Spurious - non harmonic	-80 dBc
Spurious - harmonics	-25 dBc
Power Supply	+11.5 to +16 volts 95 mA maximum (+12 volts for optimum power efficiency)
Alarm Outputs	Lock (TTL), Tuning monitor (0 to 10 V dc)
Temperature Range - Operating	-45 to +70°C Standard -55 to +85°C Option
- Storage	-55 to +100°C
Size	52 x 52 x 16 mm    nom. 4.0 to 15 GHz 52 x 52 x 19 mm    nom. 3.5 to 4.0 GHz
Weight	95 g                            4 to 15 GHz 105 g                          3.5 to 4.0 GHz
RF Connectors	SMA
Power Connectors	Solder pins

## Ordering information

BP1- XXXX

Specify Frequency in GHz e.g. 0955 = 9.55 GHz



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