OUTPUT				
Frequency				
3 GHz				
Level				
+13 dBm ±2 dB into 50 ohms				
STABILITY				
Aging				
1 x 10 <sup>-6</sup> first year				
after 30 days operating, typical				
5 x 10 <sup>-7</sup> second year, typical				
3 x 10 <sup>-7</sup> per year thereafter, typical				
Phase Noise L(f), typical				
1 Hz         -46 dBc/Hz 10 Hz      -74 dBc/Hz				
100 Hz -101 dBc/Hz				
1 KHz -122 dBc/Hz				
10 KHz -132 dBc/Hz				
30 KHz -134 dBc/Hz				
100 KHz -141 dBc/Hz				
1 MHz -160 dBc/Hz				
3 MHz -162 dBc/Hz				
10 MHz -162 dBc/Hz				
20 MHz -162 dBc/Hz				
Total RMS Jitter				
4.48 fs, typical				
With integration bandwidth: 12 kHz to 20 MHz				
Temperature Stability				
±5 x 10 <sup>-7</sup> , 0° to +50°C (Ref +25°C)				
Harmonics				
≤ -25 dBc				
Sub-Harmonics				
≤ -60 dBc				
Spurious				
≤ -80 dBc, excluding power				
supply line related spurs				
MECHANICAL				
Dimensions				
3.21 x 4 x 1"				
Connectors				
SMA(f) and solder pins				
Packaging				
Nickel-plated machined				
aluminum housing – J2				
Mounting				
Threaded inserts on base,				
#2-56, 6 places				

POWER REQUIREMENTS Warm-Up Power						
≤ 15 Watts for 5 minutes						
Total Power ≤ 11.5 Watts at +25°C						
Supply Voltage						
+15 VDC ±5%						
ADJUSTMENT Mechanical Tuning						
±4 x 10 <sup>-6</sup>						
Electrical Tuning ±5 x 10 <sup>-7</sup> , ±5 VDC						
Negative slope						
CRYSTAL						
Type 100 MHz SC-cut (x30)						
OTHER						
Label						
Use conventional label with the						
following information: 501-29992 (Current Rev.)						
3 GHz Golden-Q-MXO-FR						
+15 VDC						
Serial # - Date Code (Mark connectors with function)						
Test Data						
Output Level						
Phase Noise						
Temperature Stability Harmonics, Subs, Spurious						
Power – Warm-up and Total						
Tuning – MT and ET						

REV	DATE	REVISION RECORD	DWN	AUTH
-	04-22-16	Initial Release	PAC	

J2 MXO Connections			
Connector	Function		
1	Supply Voltage		
2	Ground, Case Electrical Tuning		
4	RF Output		



