



FEI-Elcom Tech

VMESG-2000

VME Based Signal Generator for Electronic Attack and Counter Measures

Surface Electronic Warfare Improvement Program AN/SLQ-32(V)

FEATURES

- Frequency Range: 2.0 to 20 GHz
- Output Power +22 dBm
- 10 usec Speed
- -150 dBc/Hz Phase Noise Floor
- Phase Noise: -112 dBc/ Hz at 10 KHz Offset, at 20 GHz

BENEFITS

- Light Weight
- Small Size
- Low Cost
- High Performance

OPTIONS

- Frequency Range: 0.05 to 20 GHz
- Frequency Resolution: 1 Hz
- Fast Switching Speed: 5 usec
- Ethernet Interface
- GPIB Interface
- RS- 232 / RS-485 Interface
- BCD Interface
- Frequency Modulation

APPLICATIONS

- Shipborne, Airborne, Ground Mobile
- EW – EA, ECM, ECCM
- Flight Line Testers
- SIGINT, COMINT, ELINT



**FREQUENCY RANGE:
2.0 to 20 GHz**



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SPECIFICATIONS

Frequency Resolution:	10 KHz												
Switching Speed:	10 usec Standard (< 10usec Option)												
Spurious: (All typical within ± 1 GHz of Carrier)	2 GHz – 5 GHz: -72 dBc 5 GHz – 10 GHz: -66 dBc 10 GHz – 20 GHz: -60 dBc												
Other Spurious: (Typical)	2 GHz – 5 GHz: <-60 dBc 5 GHz – 10 GHz: -66 dBc 10 GHz – 20 GHz: -54 dBc												
Harmonics:	-35 dBc												
Output Power:	+22 dBm												
Flatness:	± 1 dB												
SSB Phase Noise @ Fc = 20 GHz:	<table><thead><tr><th><u>Offset</u></th><th><u>dBc/ Hz</u></th></tr></thead><tbody><tr><td>1 KHz</td><td>-103</td></tr><tr><td>10 KHz</td><td>-112</td></tr><tr><td>100 KHz</td><td>-115</td></tr><tr><td>1 MHz</td><td>-118</td></tr><tr><td>10 MHz</td><td>-133</td></tr></tbody></table>	<u>Offset</u>	<u>dBc/ Hz</u>	1 KHz	-103	10 KHz	-112	100 KHz	-115	1 MHz	-118	10 MHz	-133
<u>Offset</u>	<u>dBc/ Hz</u>												
1 KHz	-103												
10 KHz	-112												
100 KHz	-115												
1 MHz	-118												
10 MHz	-133												
Input Reference:	+100 MHz, 0 dBm ± 2 dB												
Pulse Modulation:	70 dB ON/OFF Ratio												
Temperature Range:	-20C to 60C Operating -40C to 70C Storage												
Power Requirements:	+3.3V, +12V, 40 Watts Typical												
Weight:	< 5 Pounds												
Form Factor:	VME 2 Slots												
Interface:	VME 64x												