



**PLANAR
MONOLITHICS
INDUSTRIES, INC.**



ISO 9001 : 1994 CERTIFIED

PMI MODEL No: LSP-0518-SK LEVEL, SCAN AND PULSE MODULATION MODULE

PMI MODEL LSP-0518-SK IS AN ANALOG LEVEL, SCAN AND PULSE MODULATION MODULE THAT IS CAPABLE OF EXPONENTIAL (LINEAR IN dB) MODULATION, FOR RUGGED AND HIGH RELIABILITY APPLICATIONS USING DIGITAL PROCESS TECHNIQUES, THAT WORKS FROM 0.5 TO 18.0 GHz

KEY FEATURES:

- RF PULSE WIDTH RANGE 50ns TO CW
- BROAD BANDWIDTHS AVAILABLE
- SMALL SIZE 4.0" X 3.3" X 0.70"

Available Options:

- **Digital Control Modulation**
- **Hermetically Sealed**
- **10dB/Volt Control Sensitivity**

SPECIFICATIONS:

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| • FREQUENCY RANGE | : 0.5 TO 18.0 GHz, Other Frequencies Available |
| • RF INPUT POWER | : +12 dBm Operational, +14 dBm Max. |
| • OUTPUT P1 dB | : +12 dBm Min. @ +12dBm Input |
| • HARMONICS @ P1 dB | : -20.0 dBc Min. |
| • SPURIOUS OUTPUTS | : -60 dBc Min. |
| • LEVEL SET (POWER ATTENUATION) | : 70 dB Range |
| • SCAN MODULATION (ATTENUATION) | : 70 dB Range |
| • COMBINED ATTENUATION (LEVEL & SCAN) | : 100 dB Min. |
| • SCAN & LEVEL BANDWIDTH | : 10 kHz |
| • SCAN PULSE RESPONSE | : 50 µSec Max. For Settling |
| | : 15 µSec Max. for Rise & Fall |
| | : 10 µSec Max. |
| • DIGITAL PROCESSING JITTER | : ±2.0 dB |
| • SYSTEM FREQUENCY FLATNESS | : ±2.0 dB From 0 to 40 dB Attenuation |
| • ATTENUATION FREQUENCY FLATNESS | : ±3.0 dB From 40 to 60 dB Attenuation |
| | : ±1.5 dB |
| • ATTENUATION LINEARITY | : ±1.5 dB |
| • PULSE MODULATION DEPTH | : 60 dB Min. |
| • RF PULSE WIDTH RANGE | : 50 nS to CW |
| • RF PULSE RISE & FALL | : 9 nS Max. |
| • PULSE WIDTH FIDELITY | : ±10 nS Max. |
| • SENSITIVITY | : 6 dB / Volt |
| • BIAS VOLTAGES / CURRENTS | : ±15 VDC @ +1.5 Amps & -1.0 Amps Max. |



PLANAR MONOLITHICS INDUSTRIES, INC., 7311-G GROVE ROAD, FREDERICK, MD 21704, USA
 TEL: 301-631-1579 • FAX: 301-662-2029 • EMAIL: sales@planarmonolithics.com
 WEBSITE: <http://www.planarmonolithics.com>