

KOR ELECTRONICS PRODUCES THE WIDEST RANGE OF DIGITAL RF MEMORIES

These Lab DRFM units range from one to twelve bits of quantization and are used in a wide variety of applications in both Pipeline and Stored Delay modes of operation:

- High Fidelity Signal Delay
- Coherent Target Return Generation
- ECM Technique Development
- RF Capture and Analysis
- Building Block of RF/ECM Simulators



KEY FEATURES

- 1-12 Bits of Amplitude Sampling
- 50 MHz - 1GHz of Instantaneous Bandwidth
- Up to 6 DRFMs per Chassis
- Excellent Range Delay Control
- Up to 16.6 ms of Delay
- Down to < 1ns Resolution
- VMEbus Open Architecture
- 19" Rack Mountable
- Power PC Embedded Processor w/VxWorks
- Extensive Built-In Test
- Standard Gbit Ethernet Interface
- Read/Write Memory Control
- RF Capture and Analysis
- Custom Waveform Generation
- Optional Doppler and Amplitude Modulations
- Optional Host PC and GUI for Scenario/Technique Development
- Easily Configurable for Custom Applications

Extensive List of Options Available



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DRFM PARAMETERS

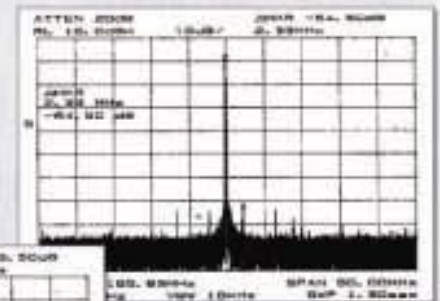
PARAMETER	DESCRIPTION
Frequency Coverage	Base band or customer defined IF or RF Frequency
Instantaneous BW	500 MHz (standard)
Input Power Level	-55 dBm to +5 dBm (standard)
Output Power Level	>0dBm (standard)
VSWR	<2.0: 1 (standard)
Pulse Repetition Frequency (PRF)	<100 Hz to >5MHz (standard)
Doppler Offset	+/-2 MHz (standard)
Doppler Resolution	<0.05 Hz (standard)
Spurious	<-42 dBc worst case <-50 dB typical
Noise Floor	<-120 dBm/Hz (DRFM active) <-150 dBm/ Hz (Inactive)
LO Leakage	<-60 dBc
Pulse Width	< 20 ns to CW
Range Delay	<120 ns to 16 ms
Delay Resolution	< 1 nanosecond

PHYSICAL CHARACTERISTICS 19 INCH RACK MOUNT UNIT

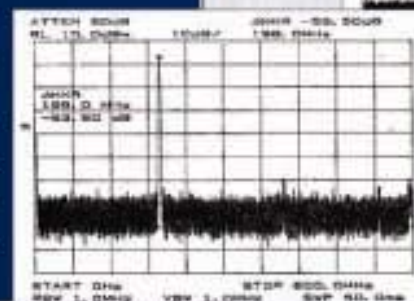
Dimensions	15.75 x19x28 Inches
Weight	60 pounds
Cooling	Forced Air

POWER

Nominal	< 250 watts
Input Voltage	110 – 240 VAC, 46-400 Hz
Input Current	3.5 Amps at 110 VAC



EXAMPLE
SPURIOUS-LAB DRFM



LAB BASED DRFM