

SPREAD SPECTRUM GENERATORS SUMMARY OF FEATURES

Feature	LRS-100	LRS-200 Series	
		LRS-205	LRS-220
Shift Register			
Maximum Size	16-Stages or Dual 8-Stages	32-Stages	Dual 32-Stages
Programmable Feedback	Yes	Yes	Yes
Programmable Initial Fill	Yes	Yes	Yes
Programmable Length	Yes	Yes	Yes
Modulation Codes			
BPSK	Yes	Yes	Yes
QPSK	Yes	Yes	Yes
OQPSK (SQPSK)	No	Yes	Yes
Gold/JPL	Yes (8-stages max.)	No	Yes
Dual QPSK (aka Gold QPSK)	Yes (8-stages max.)	No	Yes
Dual OQPSK (aka Gold OQPSK)	Yes (8-stages max.)	No	Yes
Syncopated	Yes (8-stages max.)	No	Yes
Frequency Hopping	Yes	Yes	Yes
Clock			
Maximum Rate	25 MHz	25 MHz	25 MHz
Internal Source	Yes, 1-2-5 Sequence	No (future upgrade)	No (future upgrade)
External Input	Yes	Yes	Yes
Data			
Maximum Rate	25 MHz	25 MHz	25 MHz
Internal Simulator	Yes	No (future upgrade)	No (future upgrade)
External Input	Yes	Yes	Yes
Special Modes			
Burst (for radar applications)	Yes	Yes	Yes
Master/Slave (for synchronizing two generators)	Yes	Yes	Yes
Inputs			
Level (logic family)	TTL	TTL	TTL
External Clock	Yes	Yes	Yes
External Data	Yes	Yes	Yes
High-Speed Controls (for starting, stopping, and presetting the shift register)	Yes	Yes	Yes
Outputs			
Level (logic family)	TTL	TTL	TTL
Direct Sequence	Yes	Yes	Yes
Parallel (for frequency hopping)	Yes	Yes	Yes
Clock	Yes	Yes (buffered Clock Input)	Yes (buffered Clock Input)
Epoch Strobe	Yes	Yes	Yes
<u>Data Simulator Outputs:</u>			
Data	Yes	N/A	N/A
Clock	Yes		
Epoch Strobe	Yes		
Options			
GPIB (IEEE 488.2)	No	\$2,000 (\$2,200 Int'l)	\$2,000 (\$2,200 Int'l)
Custom Configurations	No	Yes	Yes
Upgradable	No	Yes	Yes
Enclosure	Bench-Top	Rack-Mount	Rack-Mount
Price (US \$)			
Domestic (USA)	\$11,000	\$16,000	\$22,000
International	\$12,100	\$17,600	\$24,200