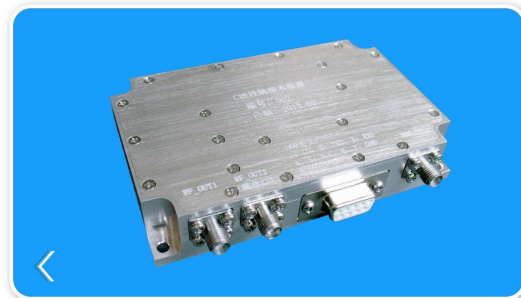
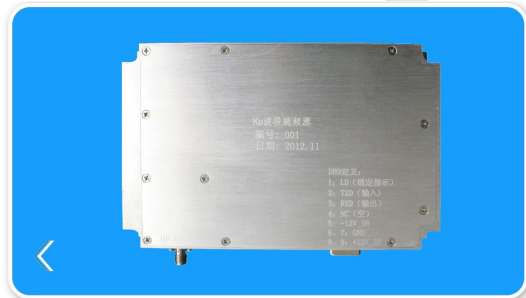


Frequency Source Series

Probecom's frequency source series products covers VHF~Ku band. The design concepts of frequency source are miniaturization, integration, combination and modular. After long term development, Probecom's frequency source products series gain advantages of low phase noise, agile frequency and ultra wide-band frequency.

Features:

- High reliability, high stability, high quality
- Low phase noise
- Low spurious
- Structure miniaturization
- Low power consumption
- Wide operating temperature range (-40°C~+60°C)



Options:

- Frequency step 1KHz, 10KHz, 100KHz, 1MHz optional
- Structure can be customized according to customer requirements
- Control interface, control mode for a variety of options
- Adaptive internal and external reference



Frequency Source Classification

Point frequency source series	Frequency hopping source series	Oscillator series
VCO digital phase locked source	Compact digital phase locked source	Dielectric stabilized oscillator
CRO sampling phase-locked source	Compact digital fast jumping source	
DRO sampling phase-locked source	Multi hop fast hopping source of frequency conversion	
Analog direct synthesis source	Low phase noise wideband fine stepped signal source	

Technical Specification

Point Frequency Source Series Technical Index	Operating Frequency	Phase Noise (dBc/Hz@10KHz)	Output Power (Optional) (dBm)	Spurious suppression (dBc)	harmonic suppression (dBc)	Lock indication
	P(0.2~1Ghz)	-122~-112	0~+15	≥75	≥30	TTL high level
	L(1~2Ghz)	-116~-106	0~+15	≥75	≥30	TTL high level
	S(2~4Ghz)	-110~-100	0~+15	≥75	≥30	TTL high level
	C(4~8Ghz)	-104~-94	0~+15	≥75	≥30	TTL high level
	X(8~12Ghz)	-98~-88	0~+15	≥75	≥30	TTL high level
	Ku(12~18Ghz)	-95~-85	0~+15	≥75	≥30	TTL high level

Hop Frequency Source Series Technical Index	Operating band	Relative bandwidth	Phase Noise (dBc/Hz@10 KHz)	Output Power (Optional) (dBm)	FH interval	Hopping time	Spurious suppression (dBc)	harmonic suppression (dBc)
	P	≤100%	-115~-105	0~+15	≥75	≥30	50~75	≥30
	L	≤100%	-110~-100	0~+15	≥75	≥30	50~75	≥30
	S	≤100%	-105~-95	0~+15	≥75	≥30	50~75	≥30
	C	≤60%	-100~-90	0~+15	≥75	≥30	50~75	≥30
	X	≤20%	-95~-85	0~+15	≥75	≥30	50~75	≥30

DRO series Technical Index	Operating band	Phase Noise (dBc/Hz)	Output Power (Optional) (dBm)	Spurious suppression (dBc)	harmonic suppression (dBc)	Frequency source shift (ppm/°C)	Frequency coefficient (k/V)
	C Band (4~8Ghz)	-100@10KHz -115@100KHz -130@1MHz	0~+15	≥70	≥25	≤±1.5	≤100
	X Band (8 ~12gHZ)	-95@10KHz -110@100KHz -125@1MHz	0~+15	≥70	≥25	≤±1.5	≤100
	Ku band (12~18Ghz)	-90@10KHz -105@100KHz -1250@1MHz	0~+15	≥70	≥25	≤±1.5	≤100