

**Broadband
Fast
Hopping
Frequency Synthesizer**



Frequency range (MHz)		2~20GHz			
Step (kHz)		10			
Output Level (dBm)		+13~+18			
Frequency switching (nS)		≤150			
Reference input (MHz)		100 (Internal OCXO, automatic sync external reference)			
Reference power input (dBm)		0~+3			
Spurious (dBc)		≥55dBc (10~20GHz) ≥60dBc (5~10GHz) ≥65dBc (≤5GHz)			
Harmonics (dBc)		≥15			
Steady Frequency temperature stability		±1×10 ⁻⁷ (Same as external reference)			
Phase Noise	Frequency range	2GHz	5GHz	10GHz	20GHz
	dBc/Hz@1kHz	≤-115	≤-110	≤-105	≤-100
	dBc/Hz@10kHz	≤-120	≤-115	≤-110	≤-105
	dBc/Hz@100kHz	≤-120	≤-115	≤-110	≤-105
Connector		Control connector: J30J-25ZKP RF connector: SMA-K			
Power supply Power consumption (V/A)		+12V/1.8			
Operating temperature (°C)		-40~+70			
Dimensions		1U 19'/160×100×40mm			
Pulse Modulation					
Modulation depth		≥60dBc			
Modulation pulse width		100ns~10ms			
Pulse cycle		500ns~10ms			
Pulse fluctuation		0.1dB			
Pulse up / down edge		30nS/50nS			
Pulse overshoot		--			
J30J-25ZKP Pin definition					
Pin number	Pin definition	Description			
1~21	D0~D20	Parallel control data			
22	GND	GND			
23	GND	GND			
24~25	+12V	+12V input, the internal has been connected, it is recommended to connect at least two external pins			