

Analog IP

Analog-PLL For Spread Spectrum Clock

Key Features

- • Including Loop-filter
- • VCO operating range : 900MHz - 1800 MHz
- • Output frequency range : 900MHz – 1800 MHz
- • Input frequency range : 12MHz - 192MHz
- • Multiplying (Output freq. / PFD freq.) : 60 - 120
- • Divider
 - 7bit feedback divider and 3bit input divider
- • Power-down Mode
- • Multiple outputs with post-divider
- • SSC function available
 - spread type : center / down
 - modulation frequency : 3kHz – 30kHz
 - modulation depth : 1% – 3% (peak-peak)
- • STBY sequence is constraint-free

Technology

Process : TSMC 28nm HPC+

Operating Condition

Parameter		Min	Max	Unit
Operating Voltage (AVDD)		1.62	1.98	V
Operating Voltage (VDD)		0.935	1.08	V
Junction Temperature		-40	125	°C
Input Clock	Duty	30	70	%
	Rise/Fall time	-	0.2	ns

**This IP is contract design IP. Please contact for detail.*

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