

SURFACE MOUNT PRECISION OSCILLATOR

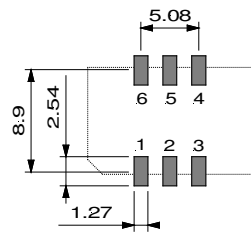
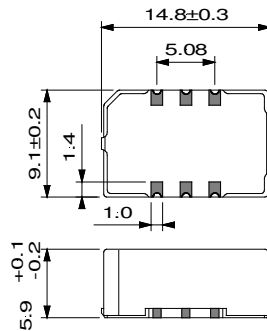
DFN S1-LLPI (LVDS)

KEY FEATURES

16 to 400 MHz
± 20 ppm/15 years stability available
1 ps RMS jitter over 50 kHz to 80 MHz B.W.

APPLICATIONS

Sonet/SDH/Datacomms



PC board footprint

Pin	DFN S1-LLPI
1	NC
2	E / D
3	GND
4	Output 1
5	Output 2
6	Vcc

TYPE	DFN S1-LLPI
Frequency Range	16 to 400 MHz

ELECTRICAL SPECIFICATIONS	
supply voltage	3.3 V ± 5 %
supply current (no load)	≤ 60 mA
output load	100 Ω connected between outputs
duty cycle @ 50% level	45/55...55/45 %
rise/fall times (20 to 80%)	≤ 0.5 ns
high/low levels	≤ 1.6 V; ≥ 0.9 V
differential output amplitude	≥ 247 mV; ≤ 454 mV
differential output error	≤ ± 50 mV
offset voltage	≥ 1.125 V; ≤ 1.375 V
offset voltage error	≤ ± 50 mV
jitter RMS (12 kHz to 5 MHz)	≤ 0.5 ps
jitter RMS (50 kHz to 80 MHz)	≤ 1 ps (f = 155.52 MHz)
enable / disable on pin 2	low or open = enable, high = disable
complementary output on pin 5	180° phase shifted
start up	≤ 10 ms @ 3.15 V

FREQUENCY STABILITY		stability [ppm] and temperature code							
types	temperature range	stability	code	stability	code	stability	code	stability	code
all types	0 to 70°C	± 20	XB20	± 25	XB25	± 50	XB50	± 100	XB100
	-20 to 70°C	± 20	XC20	± 25	XC25	± 50	XC50	± 100	XC100
	-40 to 85°C	± 20	XE20	± 25	XE25	± 50	XE50	± 100	XE100
remark	includes calibration at 25°C, temperature, ageing, Vcc and load changes 1 st year								

OPTIONS				
stability over long life time	A = 5 years	B = 10 years	C = 15 years	D = 20 years

ORDERING CODE	type + option code + frequency + stability / temperature code
Example	DFN S1-LLPI 100 MHz XB20C

REMARK	Please consult factory for life time/stabilities and frequency/stabilities possible combinations
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