

2. Electrical Specifications

2.1 Operation conditions

#	Parameters	Min.	Typ.	Max.	Unit	Remark
1	Nominal frequency	26.000000			MHz	
2	Supply voltage (Vcc)	1.68	2.8	3.63	V	
3	Current consumption	-	-	1.5	mA	
4	Operating temperature range	-40	-	+85	°C	
5	Storage temperature range	-40	-	+85	°C	

2.2 Output characteristics

#	Parameters	Min.	Typ.	Max.	Unit	Remark
1	Output type	Clipped sine wave			-	Decoupling capacitor is required in external circuit
2	Standard output Load	10 K Ω //10 pF			-	
3	Output level	0.8	-	-	V _{pp}	
4	Duty cycle	45	50	55	%	Ground level
5	Harmonics	-	-	-5	dBc	
6	Start-up time vs. frequency	-	-	2.0	ms	Within ± 0.5 ppm
7	Start-up time vs. output level	-	-	2.0	ms	$\geq 90\%$ of Vpp

2.3 Frequency characteristics

#	Parameters	Min.	Typ.	Max.	Unit	Remark
C	Nominal frequency	26.000000			MHz	
2	Frequency tolerance after reflow	-2.0	-	+2.0	ppm	At 25 ± 2 °C after 2 times reflow, refer to nominal frequency
3	Frequency stability vs. temperature 1	-3.0	-	+3.0	ppm	Within -40 to -30°C, refer to frequency at 25°C
4	Frequency stability vs. temperature 2	-0.5	-	+0.5	ppm	Within -30 to +85°C, refer to frequency at 25°C
5	Frequency slope vs. temperature 1	-0.05	-	+0.05	ppm/°C	From -20 to -65°C.
6	Frequency slope vs. temperature 2	-0.1	-	+0.1	ppm/°C	From -30 to +85°C.
7	Frequency slope vs. temperature 3	-0.35	-	+0.35	ppm/°C	From -40 to +30°C.
8	Frequency stability vs. supply voltage	-0.2	-	+0.2	ppm	$\pm 5\%$ Vcc variation
9	Frequency stability vs. load variation	-0.2	-	+0.2	ppm	$\pm 10\%$ load variation
10	Aging over 1st year	-1.0	-	+1.0	ppm/yr	At room temperature
11	ESD	HBM > 2000V			-	JESD22-A114-B
12	MSL	Level 1			-	IPC/JEDEC J-STD-033C

2. Electrical Specifications (Cont.)

2.4 Phase noise characteristics

#	Parameters	Min.	Typ.	Max.	Unit	Remark
1	Phase noise at 1kHz offset	-	-130	-	dBc/Hz	