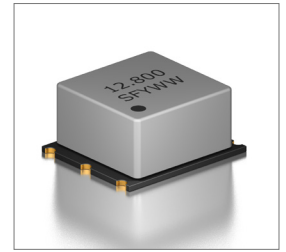


Features

- Stratum 3E
- ± 0.01 ppm Stability
- 12.800MHz
- Tape & Reel
- MSL : Level 3

Applications

- Si5348/83/84/88/89 Network Synchronizer Clocks
- Si5371/72 Coherent Optics Clocks
- Si5392-97 Jitter Cleaners


Part Numbering Guide

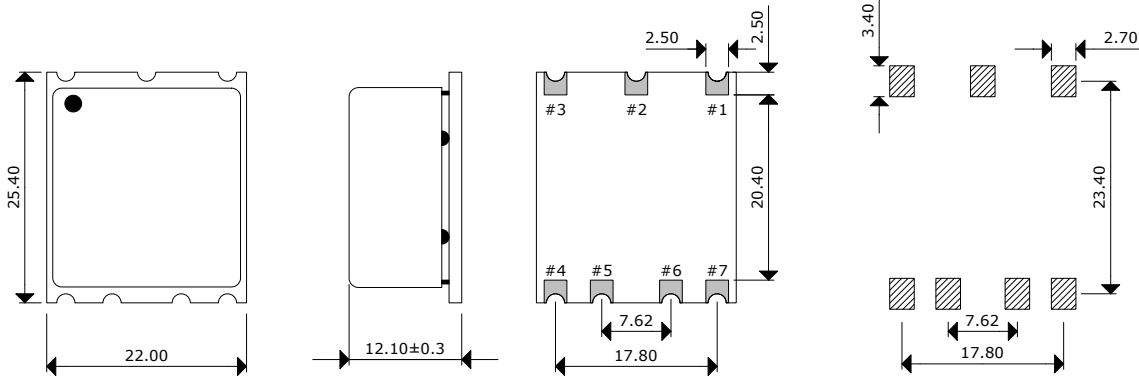
SJX239 - 12.800M



Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency	MHz		12.800		
Frequency Tolerance at +25°C	ppm	-0.5		+0.5	
Freq. Stability vs. Op Temp.	ppm	-0.01		+0.01	Ref. to Freq. observed with $f_{ref} = (f_{max} + f_{min}) / 2$
Freq. Stability vs. Supply Voltage	ppb	-0.5		+0.5	V _{DD} $\pm 5\%$ Change
Freq. Stability vs. Load	ppb	-0.5		+0.5	$\pm 5\%$ Change
Freq. Stability vs. Aging/Day	ppb	-0.3		+0.3	
Freq. Stability vs. Aging/Year	ppm	-0.05		+0.05	
Freq. Stability vs. Aging/10 Year	ppm	-0.5		+0.5	
Holdover 24Hrs Drift	ppb	-0.5		+0.5	After 30 days of operation
Operating Temperature	°C	-40		+85	
Storage Temperature	°C	-55		+105	
Supply Voltage (V _{DD}) - 3.3V	V	3.13	3.3	3.47	
Power Consumption At Turn On	mA			1000	
Power Consumption At 25°C	mA			450	
Output Logic (HCMOS)	pF		15		
Output Logic Level - High (V _{OH})	V	2.4			
Output Logic Level - Low (V _{OL})	V			0.33	
Rise Time (T _R) And Fall Time (T _F)	ns			5	
Symmetry (Duty Cycle)	%	45	50	55	
Start-Up Time	ms			3	
Warm-Up Time	Mins			5	Freq. @25°C reference after 1hr
Phase Noise 1Hz Offset	dBc/Hz		-90	-80	
Phase Noise 10Hz Offset	dBc/Hz		-120	-110	
Phase Noise 100Hz Offset	dBc/Hz		-140	-130	
Phase Noise 1kHz Offset	dBc/Hz		-145	-140	
Phase Noise 10kHz Offset	dBc/Hz		-150	-145	
Phase Noise 100kHz Offset	dBc/Hz		-150	-145	
Phase Noise 1MHz Offset	dBc/Hz		-150	-145	
Phase Jitter 12kHz - 5MHz	ps			0.5	

Outline Drawing & Land Pattern

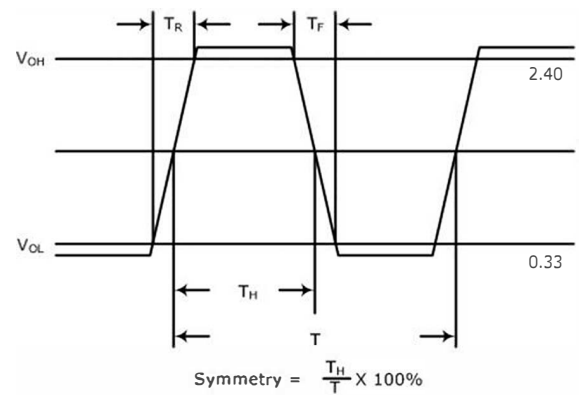
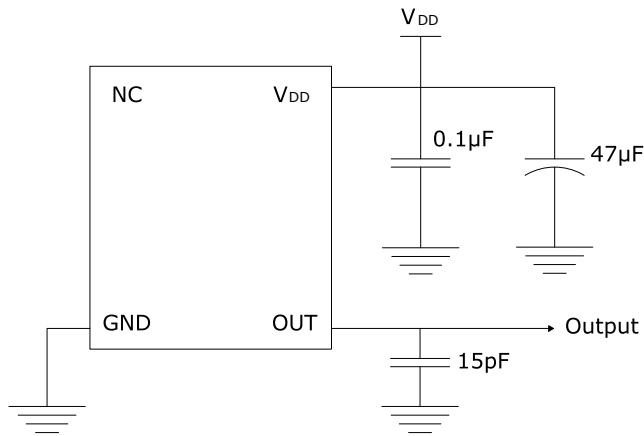
All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



Pin#	Function
1	NC
2	NC
3	V _{DD}
4	OUTPUT
5 & 6	NC
7	GND

Test Circuit (HCMOS)

Waveform (HCMOS)



Typical Phase Noise And Jitter Performance (Measured By Agilent E5052B)

