





SX3SS

LOW EMI SPREAD SPECTRUM CLOCK OSCILLATORS

FEATURES

• Reduce EMI by >15 dBc without changing your board layout.

- Drop-in replacement.
- Wide frequency range.
- Applications: GPS, Wireless LAN, Mobile phone, SDCs,...

3.2 x 2.5 x 1.0 mm

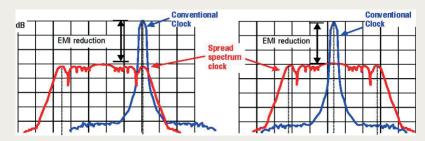


Item	Specification					
Frequency Range	6.0 MHz ~ 200.0 MHz					
Spread Type (see options)	Total %	Down Spread (D)	Center Spread (C)			
Spread Percentage (see options)	1% 3%	-1% -3%	±0.5% ±1.5%			
EMI Reduction (Reduction is applied to the entire spectrum)	-9 dBc min. 100 MHz at Center Spre -15 dBc min. 100 MHz at Center Spre With respect to the dB level when no	ead 1.5%				
Modulation Carrier Frequency (Dither rate)	6.9 kHz min. ; 55.5 kHz max. Frequency dependent					
Output Logic	CMOS					
Overall Frequency Stability *	\pm 25 ppm \sim \pm 100 ppm (see options)					
Operating Temperature Range	0 \sim +70 $^{\circ}$ C commercial application (s -40 \sim +85 $^{\circ}$ C industrial application (s	• *				
Supply Voltage Vdd	+1.8V ±10% +2.5V ±10%	% +3.3V ±10%				
Supply Current Idd	7 mA ~ 35 mA					
Output Level	VOH ≥ 0.9 Vdd	VOL ≤ 0.1 Vdd				
Output Load	15 pF					
Symmetry	45 / 55 %					
Rise Time / Fall Time Fr/Ff	4 ns max.					
Tri-state function	pin #1 = high or open pin #1 = low	pin #3 = oscilla pin #3 = high ir				
Start-up Time	10 ms max.					
Packing Unit	1000pcs / reel					
Soldering Condition	260°C, 10 sec x2 max					

Customer specifications on request

(*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

MODULATION TYPES









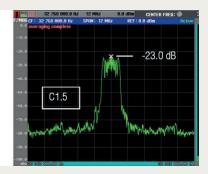
OPTIONS & ORDERING INFORMATION

SX3SS						MHz
	Supply Voltage	Operating Temp.	Overall Stability	Tri-state Function	Spread Type	Frequency in MHz
	18 = +1.8V	E = 0° / +70°C	25 = ±25 ppm	E = Tri-state	D1 = Down Spread 1%	Please specify the
	25 = +2.5V	K = -40° / +85°C	50 = ±50 ppm		D3 = Down Spread 3%	frequency in MHz
	33 = +3.3V		100 = ±100 ppm		C0.5 = Center Spread 1%	
					C1.5 = Center Spread 3%	

If over-clocking is a problem to your system, please choose down spread

Example: 32.768 MHz at No Modulation and at Center Spread 1.5 %: 13.1 dBc EMI reduction











OUTLINE DIMENSIONS

