

Spread Spectrum Clock Generator Ultra Low Power Mobile EMI Reduction Oscillator SSDPI series(Programmable)

Features

Electrical Specification

• Frequency rang • Supply voltage • Package • FCC approved	ge : 1 Ml : 1.62 : 2.5 x 2.0 EMI attenu	V ~ 3.63 V O (mm) uation					enc	
Item	Symbol		Specifi	cations		Co	nditions/	Remarks
Supply voltage	V _{cc}	1.80 V Typ, 2.50 V Typ. 3.30 V Typ. 1.62 V ~ 1.98 V ~ 2.20 V 2.20 V 2.20 V 2.70 V ~ 3.63 V						
Output frequency range	fo	1 MHz ~ 170 MHz						
Storage temperature	T_stg	-40 °C ~ +125 °C				Storage as single product.		
Operating temperature	T_use	-40 °C ~ +85 °C						
Current consumption Output disable current	Icc	3.4 mA Max. 2.9 m/		3.6 mA Max. 3.0 mA Typ.	3.7 mA Max. 3.2 mA Typ.	T_use = +85 °C T_use = +25 °C	No load, fo = 20 MHz No load, fo = 170 MHz	
		5.7 mA Max.	6.0 mA Max.	6.9 mA Max.	8.3 mA Max.	T_use = +85 °C		
	I dis	4.9 m/ 3.4 mA Max.	3.4 mA Max.	5.9 mA Typ. 3.5 mA Max.	7.0 mA Typ. 3.7 mA Max.	T_use = +25 °C		
Symmetry	SYM	3.4 MA Max. 3.4 MA Max. 3.5 MA Max. 3.7 MA Max. 45 % ~ 55 %				OE = GND, fo = 170 MHz 50 % V Level		
Output load condition	L CMOS					JU /0 V LEVEI		
Output load condition	_	15 pF Max. 70 % Vcc Min.						
Input voltage	VIH							
1 1131	VIL		/cc Max.					
Rise and Fall time	tr/tf			ns Max.	fo > 40 MHz fo ≤ 40 MHz		20 % - 80 % Vcc, L_CMOS = 15 pF	
Disable Time	t_stp		µs Max.	Measured from the time OE pin crosses 30 % $\rm V_{\rm CC}$				
Enable Time	t_sta		μs Max.	Measured from the time OE pin crosses 70 % V _{CC}				
Start-up time	t_str	3 ms Max. Measured from the time Vcc reaches its rated value, 1.62 V						

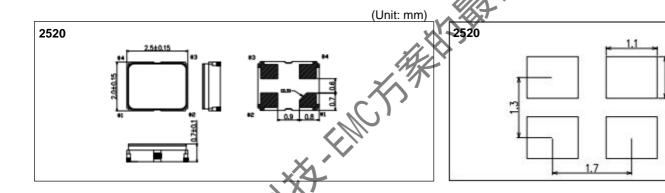


■ Pin description

Pin	Name	I/O type		Function
1 OE	Input	Output enable	High: Specified frequency output from OUT pin	
			Low: Out pin is low (weak pull down), only output driver is disabled.	
2	GND	Power	Ground	
3	OUT	Output	Clock output	
4	Vcc	Power	Power supply	

External dimensions

Footprint (Recommended)



■Notes:

In order to achieve optimum litter performance, the 0.1 μ F capacitor between V_{CC} and GND should be placed. It is also recommended that the capacitors are placed on the device side of the PCB, as close to the device as possible and connected together with short wiring pattern.

(Unit: mm)



Device Ordering Information

