

# PRODUKT-INFO

## SMD-1100S SMD OSCILLATOR

### FEATURES

1. J-Lead plastic surface mount.
2. Wide frequency range.
3. Low cost.
4. Tri-State enable / disable.
5. SG-615 / CMX-309 compatible.



Actual Size

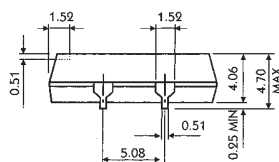
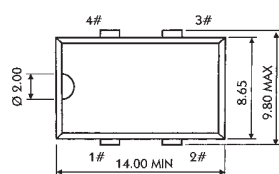


ELECTRICAL SPECIFICATIONS			
Model	Condition	SMD-1100S (5.0V)	SMD-1100S (3.3V)
Frequency Range		1.0 MHz ~ 125.0 MHz	1.0 MHz ~ 106.250 MHz
Frequency Stability		±25 ppm / ±50 ppm / ±100 ppm max.	
Operating Temperature Range		0°C to +70°C, -40°C to +85°C option	
Storage Temperature Range		-55°C to +125°C	
Supply Voltage		5.0V±10%	3.3V±10%
Supply Current	1.0 MHz ~ 20.0 MHz	20 mA max.	15 mA max.
	20.001 MHz ~ 40.0 MHz	30 mA max.	25 mA max.
	40.001 MHz ~ 80.0 MHz	40 mA max.	35 mA max.
	80.001 MHz ~ 125.0 MHz	50 mA max.	45 mA max.
Load Drive Capability		10 TTL Load or 15 pF HCMOS Load	
Rise Time	10% V <sub>DD</sub> ~ 90% V <sub>DD</sub>	4 ns max.	
Fall Time	90% V <sub>DD</sub> ~ 10% V <sub>DD</sub>	4 ns max.	
Output Voltage	V <sub>OH</sub>	w/TTL Load	2.4 V <sub>DC</sub> min., 90% V <sub>DD</sub> min.
	V <sub>OL</sub>	w/HCMOS Load	0.4 V <sub>DC</sub> max., 10% V <sub>DD</sub> max.
Duty Cycle	at 50% Waveform w/HCMOS Load or 1.4 V <sub>DC</sub> w/TTL Load	50 ±10%, 50 ±5% option	
Pin 1, Tri-State Input Voltage	V <sub>IH</sub> : ≥ 2.0 V <sub>DC</sub> V <sub>IL</sub> : ≤ 0.8 V <sub>DC</sub>	enable output disable output: high impedance	
Start Time		10 ms max.	
Period Jitter: pk-pk		100 ps max.	
Period Jitter: one sigma		25 ps max.	
Aging (at +25°C) first year	at +25°C ±3°C	±5 ppm / year max.	

### CROSS REFERENCES:

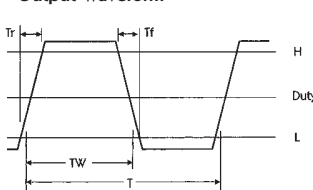
- SG-615 EPSON
- CMX-309 CITIZEN

Dimensions (Units: mm)

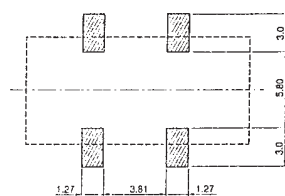


Terminal	Connection
#1	O.E.
#2	GND
#3	OUT
#4	V <sub>DD</sub>

Output Waveform



Duty TW / T x 100%



14.0 x 9.8 x 4.7

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All specifications subject to change without notice.