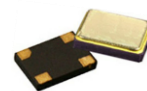


9205SSC Series

Spread spectrum clock oscillator, 7.0 x 5.0mm, HCMOS

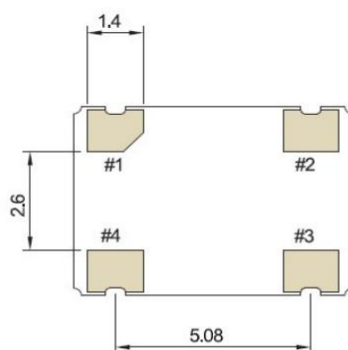
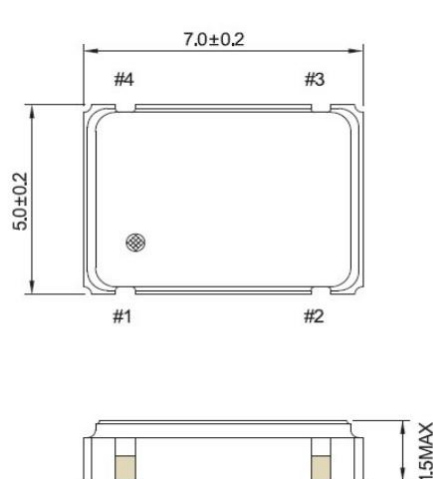


- REACH and RoHS compliant
- Spread spectrum technology



Parameters		Specification	Remarks
Frequency range	F _{nom}	10MHz ~ 200.0MHz	10MHz ~ 160.0MHz at 2.5V Vcc
Supply voltage	Vcc	3.3V, 2.5V	
Frequency stability	F _{stb}	±25.0ppm, ±50.0ppm, ±100.0ppm	
Aging	F _{age}	±3.0ppm max	For 1st year
Operating temperature range (°C)	T _{opr}	-20°C ~ +70°C, -40°C ~ +85°C	
Storage temperature (°C)	T _{stg}	-55°C ~ +125°C	
Output		HCMOS	
Output load		15pF	
Output voltage high	V _{oh}	90% Vcc min	
Output voltage low	V _{ol}	10% Vcc max	
Center spread		±0.25%, ±0.5%, ±1%, ±2%	
Down spread		-0.5%, - 1%, - 2%, - 4%	
Rise time	T _r	10nsec max	
Fall time	T _f	10nsec max	
Duty cycle		45%/55%, 40%/60%	
Current consumption	I _{cc}	2.5V/20mA Max; 3.3V/25mA Max;	
Start-up time	T _{str}	5.0msec max	
Tristate		Enable: 70% Vcc Min or N.C	Disable: 30% Vcc Max
Period jitter		70psec max	

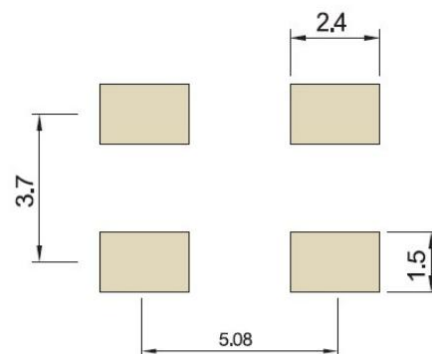
Dimensions (mm)



CONNECTION

- #1 N.C or EN/DIS(Tri-State)
- #2 GND
- #3 OUTPUT
- #4 Vdd

• Recommended Soldering Pattern



9205SSC Series

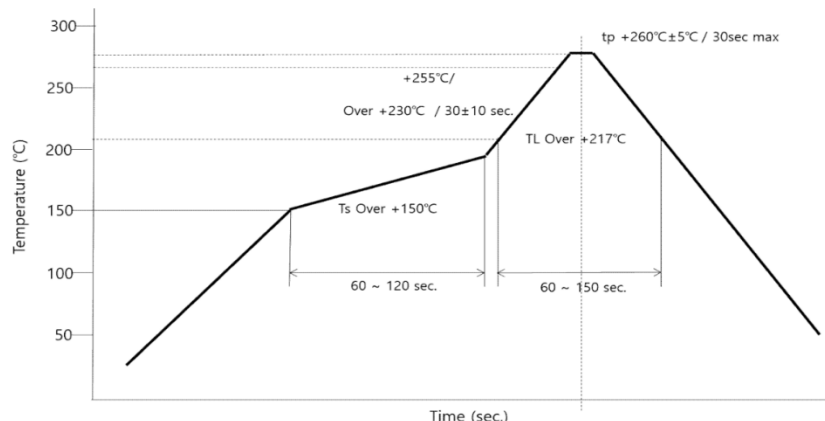
Spread spectrum clock oscillator, 7.0 x 5.0mm, HCMOS



Part number generation										
RN	2600	B	B	I	S	E	P	C02	L	-PF
ACT series Code	Frequency (MHz)	Frequency stability (±ppm)	Supply voltage (V)	Operating temp. range (°C)	Duty Cycle (%/%)	Output wave	Tristate	Spread (%)	Tape & Reel	RoHS Code
RN	< 100MHz First 4 digit of frequency > 100MHz First 5 digit of frequency Ex. 26.00MHz = 2600 8.00MHz = 0800 14.7456MHz = 1474	25 = C 50 = B 100 = A	2.5 = C 3.3 = B	-20 ~ +70 = B -40 ~ +85 = I	40/60 = S 45/55 = H	HCMOS 15pF = E	Tristate = P None = N	<u>Centre spread</u> ±0.25% = C02 ±0.50% = C05 ±1% = C10 ±2% = C20 <u>Down spread</u> -0.5 = D05 -1.0 = D10 -2.0 = D20 -4.0 = D40	Loose = L 1000 = C	-PF

Note: It is important to suffix the above part number with full frequency required to give a completed part number as illustrated below.
Full Example part number: **RN2600BBISEPC02L-PF [26MHz]**, **RN1474BBISEPD05L-PF [14.7456MHz]**

Solder reflow profile

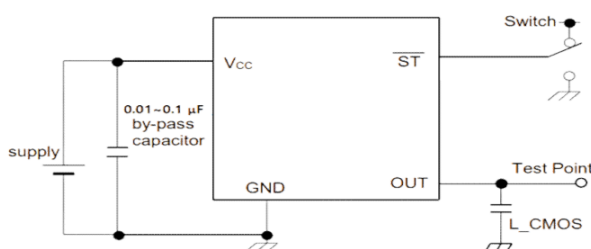


(1) Reflow soldering heat resistance
Peak Temp. : 265°C, 30sec max.
Heating : 230°C or higher, 40sec.
Preheating : 150~180°C, 120sec.
Reflow passage times : 2 times

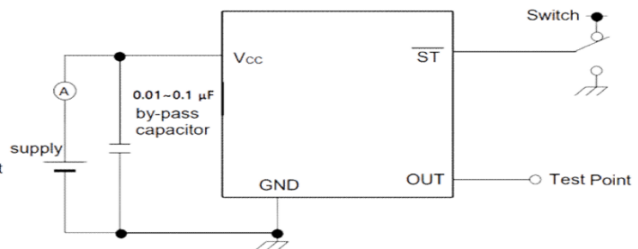
(2) Manual soldering heat resistance
Pressing a soldering iron of 350°C on the terminal electrode
Soldering touch time : 4sec.
Manual soldering times : 2 times

Test Circuit

Waveform Observation



Current Consumption Test



*Standby current test should be ST = GND.

Drawing control: (Internal use only)
Commodity code:
854370 90 45 for 1.8MHz ~ 67MHz
854370 90 45 for < 1.8MHz and >67MHz
Issue number : N1
Date : 04/08/2026
Internal reference : HS1

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