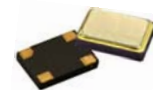


# 9200 Series

Clock oscillator, 7.0 x 5.0mm, HCMOS/TTL



REACH and RoHS compliant  
Low Supply voltage available



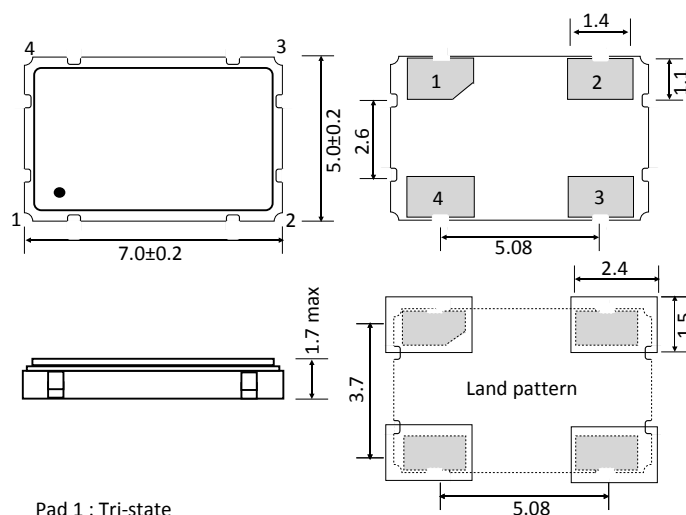
Parameters	Specification	Remarks
Frequency range	F_nom 1.0MHz ~ 200.0MHz	
Supply voltage	Vcc 1.8V±5%, 2.5V±5%, 3.3V±5%, 5.0V±10%	
Frequency stability (all causes)	F_stb ±15.0ppm ~ ±100.0ppm	Includes initial tolerance, stability over temperature, Load, Vcc
Aging	F_age ±3.0ppm max	25°C, 1 <sup>st</sup> year
Operating temperature range (°C)	Topr 0°C ~ +50°C to -40°C ~ +85°C	Table 1
Storage temperature (°C)	Tstg -55°C ~ +125°C	
Output waveform	HCMOS	
Output load	15pF HCMOS/10 TTL	
Output voltage high	Voh HCMOS : 90% Vcc min ; TTL : Voh 2.4V min	
Output voltage low	Vol HCMOS :10% Vcc max : TTL : Vol 0.4V max	
Rise time	Tr Table.3	Measured over 10% to 90% of waveform
Fall time	Tf Table.3	
Duty cycle	45%/55%, 40%/60%	Measured at 50% of waveform
Current consumption	Icc Table 2	
Start-up time	T_str 10.0msec max	
Phase jitter (RMS)	1psec max	12kHz to 20MHz integrated
Moisture sensitive level	MSL 1	
Tristate	Pad 1	

Temperature (°C)	Frequency stability (ppm)					
	±15.0	±20.0	±25.0	±30.0	±50.0	±100.0
0 ~ +50	√	√	√	√	√	√
-10 ~ +60	√	√	√	√	√	√
0 ~ +70	Enq.	√	√	√	√	√
-10 ~ +70	Enq.	√	√	√	√	√
-20 ~ +70	Enq.	√	√	√	√	√
-40 ~ +85	Enq.	Enq.	√	√	√	√

Frequency (MHz)	Supply voltage			
	1.8V	2.5V	3.3V	5.0V
1.000 ~ 25.000	3.0mA	4.0mA	5.0mA	7.0mA
25.001 ~ 40.000	4.0mA	5.0mA	7.0mA	10.0mA
40.001 ~ 80.000	13.0mA	17.0mA	20.0mA	25.0mA
80.001 ~ 100.000	17.0mA	20.0mA	25.0mA	-
100.001 ~ 125.000	20.0mA	30.0mA	40.0mA	-
125.001 ~ 160.000	37.0mA	50.0mA	70.0mA	-
160.001 ~ 200.000	-	58.0mA	75.0mA	-

Frequency (MHz)	(nsec)	Frequency (MHz)	(nsec)
1.000 ~ 39.999	7.0	60.001 ~ 99.999	3.0
40.000 ~ 59.999	4.0	100.000 ~ 200.000	2.5

## Dimensions(Unit:mm)



- Pad 1 : Tri-state
- Pad 2 : Ground
- Pad 3 : Output
- Pad 4 : Supply voltage

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**ISO9001 Registered**

Specifications subject to change without notification

# 9200 Series

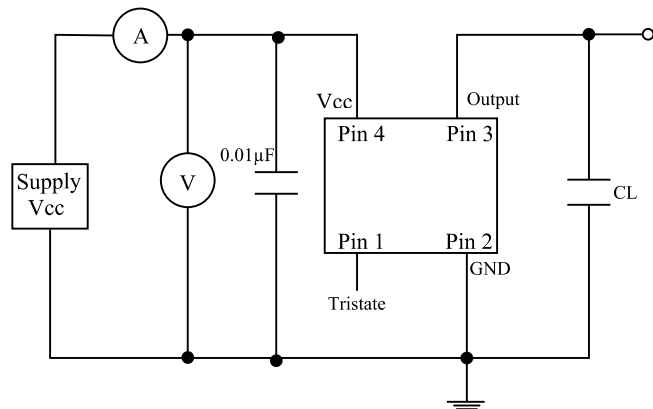
Clock oscillator, 7.0 x 5.0mm, HCMOS/TTL



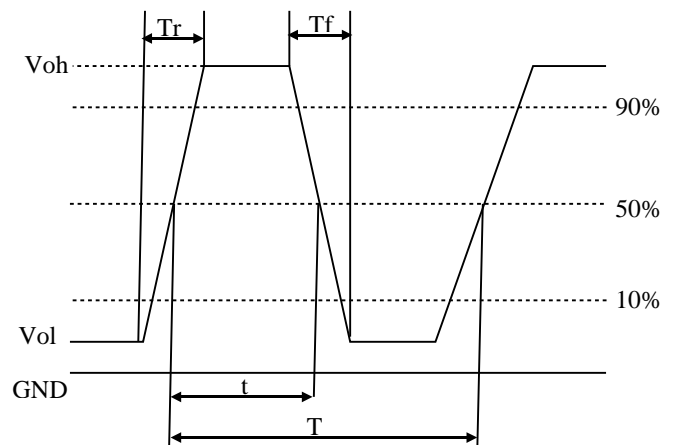
Part number generation									
RV	2600	B	B	I	S	E	P	L	-PF
ACT series Code	Frequency (MHz)	Frequency stability ( $\pm$ ppm)	Supply voltage (V)	Operating temp. range ( $^{\circ}$ C)	Duty Cycle (%/%)	Output wave	Tristate	Tape & Reel	RoHS Code
RV	< 100MHz First 4 digit of frequency  > 100MHz First 5 digit of frequency  Ex. 26.00MHz = 2600 8.00MHz = 0800 14.7456MHz = 1474	15 = D 20 = I 25 = C 30 = H 50 = B 100 = A	1.8 = D 2.5 = C 3.3 = B 5.0 = A	0 ~ +50 = D -10 ~ +60 = F 0 ~ +70 = E -10 ~ +70 = C -20 ~ +70 = B -40 ~ +85 = I	40/60 = S 45/55 = H	HCMOS 15pF = E HCMOS 30PF = Q Univresal* = J TTL = H	Tristate = P None = N	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 : RV2600BBISEPL-PF [26MHz], RV1474BBISEPL-PF [14.7456MHz] , Univresal\* = 15pF HCMOS/ 10 TTL

### Test circuit

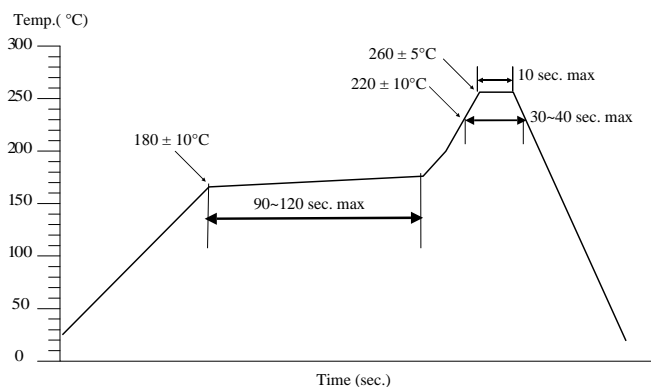


### Waveform



$$\text{Duty cycle} = (t/T) \times 100\%$$

### Solder reflow profile



Drawing control: (Internal use only)  
Commodity code:  
854370 90 45 for 1.8MHz ~ 67MHz  
854370 90 99 for <1.8MHz and >67MHz  
Issue number : N1  
Date : 01/02/2017  
Internal reference : Skr