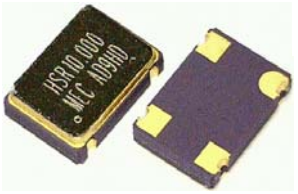
HS	HSR	True Sine Wave	Thru-Hole	SMD	2.8V	3.3V	5.0V	Min.	Max.
50Ω load	10KΩ//10pF load							10MHz	52MHz

Applications

- True Sine wave clock oscillators in 3.2x5.0 mm and 5.0x7.0 mm SMD. First in the market .
- High purity and low total harmonic distortion. Ideal for audio modulation applications .
- For VCXOs with sine wave output, please refer to GS series



RoHS Compliance

General specifications of all available packages , at Ta=+25°C

Model	" HS " series		" HSR " series		
Load	50Ω. (Internally AC coupled)		10 KΩ // 10 pF load		
Output Wave Form	True Sine Wave				
Input Voltage (V_{DD})	+3.3V D.C.±5%	+5.0V D.C.±10%	+2.8V D.C.±5%	+3.3V D.C.±5%	+5.0V D.C.±10%
Frequency Range	10.0 ~ 800.0MHz	10.0 ~ 156.0MHz	10.0MHz ~ 52.0MHz		
Output Level	Standard: +3.0 dBm min. Tolerance: ± 1 dB Maximum Power: +7 dBm (User to specify)	Standard: +5.0 dBm min. Tolerance: ± 1 dB Maximum Power: +13 dBm (User to specify)	1.0 V p-p typical		
Current Consumption	10 MHz : 9 mA (typ.)	10 MHz : 18 mA (typ.)	1.0 mA	1.5 mA	1.2 mA
	100 MHz : 18 mA (typ.)	100 MHz : 34 mA (typ.)			
	150 MHz : 19 mA (typ.)	150 MHz : 36 mA (typ.)			
Harmonics	< - 30dBc (frequency dependent)		< - 25dBc (frequency dependent)		
Start -up Time	6.0 m Sec.(typ.)		2.0 m Sec.(typ.)		
Storage Temperature	- 50°C to 100°C		- 55°C to 125°C		
Pin 1 option	Tri-state , Output disable when taken low		No Tri-state option		

Frequency Stability [1] Codes	Frequency Stability over Operating Temperature Range	± 25 ppm	± 50 ppm	± 100 ppm	If non-standard please enter the desired stability after the " C " or " I " . represents . For example : " C20 " : ±20 ppm over -10°C to +70°C " I20 " : ±20 ppm over -40°C to +85°C
	Commercial (*-10°C to +70°C*)	*A*	*B*	*C*	
	Industrial (*-40°C to +85°C*)	*D*	*E*	*F*	

Sub-Harmonics	None
Aging	± 5 ppm per year (max.)

Note : (1) Inclusive of 25°C tolerance , operating temperature range , ±10% input voltage variation , load change , aging , shock and vibration.

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