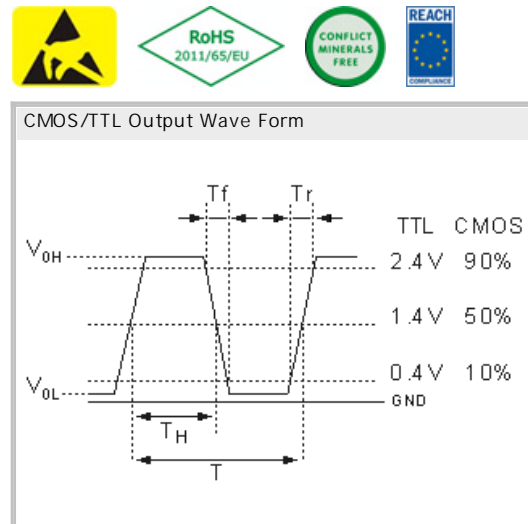




## EMI Reducing Spread Spectrum Clock Oscillator CSS7050TR3.3 3.3V

- SMD in ceramic case (7.0 x 5.0 x 1.8) mm
- Tri-State Enable / Disable
- CMOS/TTL Square Wave
- on Tape & Reel (Tape 16mm, 1000pcs per reel)
- RoHS conform; Lead-free product
- Vibration: MIL-STD-202F method 204, 35G, 50 to 2000 Hz
- Shock: MIL-STD-202F method 213B, test cond. E, 1000GG 1/2 sine wave
- Available in many standard and special frequencies



## Specifications

Holder Type:	CSS7050TR3.3 Tri-State 3.3V (Voltage code is " 3.3 ")
Frequency:	12.000000 MHz
Frequency Stability at 25°C:	± 50.0 ppm
Operating Temperature Range:	± 50.0 ppm , -10°C to +70°C
Storage Temperature:	-55°C to +125°C
Spread Type/EMI Reduction:	C = ± 1.50% / -15 dBc (min.) , 100MHz at C1.5
Power Supply Voltage (V <sub>dd</sub> ):	+ 3.3V D.C. ± 5 %
Maximum Supply Current:	10.0 mA typ.
Modulation Carrier Freq. (Dither rate):	6.9 kHz min.; 55.5kHz max. Frequency dependent
Output Load:	15 pF CMOS / 10LS TTL gates max.
Output Symmetry (Duty Cycle):	45/55% CL=15pF; 50% V <sub>dd</sub>
Output Voltage (V <sub>OH</sub> ) (V <sub>OL</sub> ):	2.4V min; 3.2V typical 90% of V <sub>dd</sub> min. 0.5V max; 0.2V typical 10% of V <sub>dd</sub> max.
Rise/Fall Time (10% to 90% V <sub>dd</sub> ):	4 ns max.
Start Up Time:	2 ms typical; 5 ms max.
Cycle-to-Cycle Jitter:	± 250 ps typical; ± 300 ps max.
Tri-state Function Pin 1:	Pin 1 = H or open.... Output active at pin 3 Pin 1 = L.... high impedance at pin 3; Output enable/disable time: 100ns max.
Aging:	< ± 5ppm max. / year (max.)
Reflow Condition:	260°C max for 10 sec.
See also ....:	<a href="http://www.comtec-crystals.com/docs/G/GFG2.htm">http://www.comtec-crystals.com/docs/G/GFG2.htm</a>

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