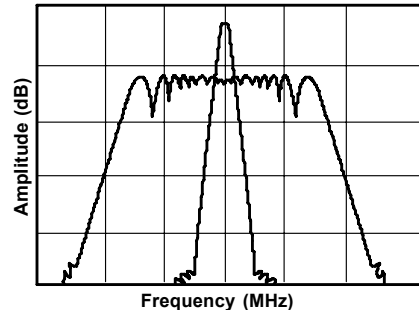


LOW EMI SPREAD SPECTRUM CRYSTAL CLOCK OSCILLATORS

ASSH

FEATURES:

- Integrated Spread Spectrum technology
- Standard TTL or HCMOS output.
- Meets jitter requirements for all major CISC, RISC and DSP processors
- Frequency Range of 15 to 120 MHz @ 5.0 VDC.
- Frequency Range of 15 to 90 MHz @ 3.3 VDC.



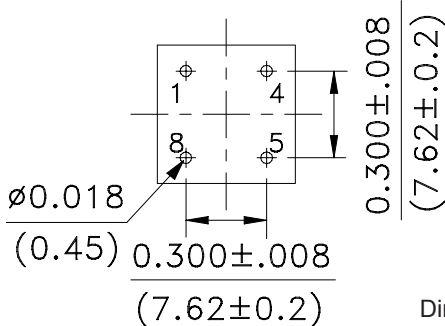
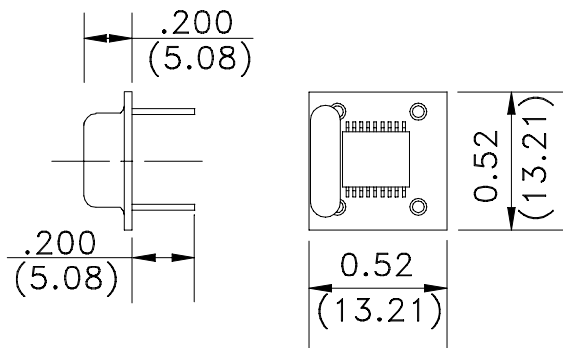
APPLICATIONS:

- Medical
- Printers
- Scanners
- Modems
- Telecommunications
- Aerospace
- Copier
- Automotive

ADDITIONAL BENEFITS:

- Reduce emissions up to 20 dB.
- Systemic approach to EMI.
- Highly cost effective compared to other methods.
- Eliminate need for individual node suppression.
- Eliminate need for expensive shielding.
- Reduce component count.
- Reduce PCB layer count.
- Drop-in replacement for 8 pin DIP packages.

MECHANICAL DIMENSIONS:



Dimensions: Inches (mm)

PIN CONFIGURATION:

Pin Number	Function
1	NC
4	GND
5	OUTPUT
8	VDC

Table1



NOTE: Left blank if standard • All specifications and markings subject to change without notice

29 Journey • Aliso Viejo, CA 92656 • USA

(949) 448-7070 • FAX: (949) 448-8484

E-MAIL: abinfo@abracon.com • INTERNET ADDRESS: www.abracon.com



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LOW EMI SPREAD SPECTRUM CRYSTAL CLOCK OSCILLATORS

ASSH

Table 2

STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	ASSH		Conditions
Operating Temperature (Topr)	0°C to +70°C		
Storage Temperature (Tsto)	- 65°C to +150°C		
Frequency Stability vs. Temp (dF/Fo)	± 100 ppm max. (See Options)		
Operating Supply Voltage (VDC)	3.3 VDC	5.0 VDC	+/-5 %
Frequency Range (Fo)	15 – 90 MHz	15 – 120 MHz	
Operating Input Current (IDD)	40 mA max	75 mA	F = 90 MHz
Duty Cycle	45/55	45/55	% max
Output Voltage (VOH/VOL)	2.4 VDC min.	4.0 VDC min.	
Rise Time	5.0 typ.	3.5 typ.	Load = 15 pF, 10 – 90%
Fall Time	3.2 typ.	2.3 typ.	Load = 15 pF, 10 – 90%
Start-up Time	10 ms max. 3 ms typ.		
Aging	+/- 5ppm max. /year		
Jitter	500 ps. max.		0°C to +70°C
Output Load	10-LSTTL or 15 pF		
Modulation Frequency (Fm)	20 – 40 kHz		15 – 120 MHz

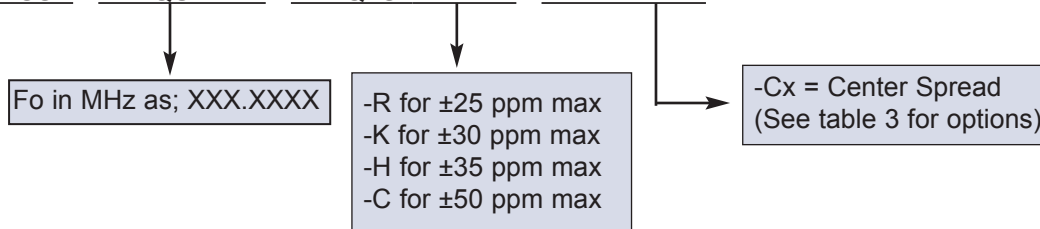
Download Spread Spectrum Clocking application note on Abracon website at www.abracon.com/emi/ssc.

Table 3

FACTORY BANDWIDTH SELECTION (±10%)	
BANDWIDTH %	Center Spread
± 0.625	C1
± 1.25	C2
± 2.50	C3
± 5.00	C4

ORDERING OPTION

ASSH - FREQUENCY - FREQ. STABILITY - BANDWIDTH



Example: ASSH-048.0000-C-C4

Would be the part number for a 48.0000 MHz, ±5.0% center spread with a +/-50 ppm center frequency accuracy .



Rev. 2.4

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[LJ-E-T](#) [ABLJO-V-150.000MHz](#) [ABM2-16.000MHZ-D4Y-T](#) [ABM8G-12.000MHZ-B4Y-T3](#) [AIRD-06-101K](#) [AOCJY3-40.000MHZ](#)
[AOCJY6-10.000MHz-1](#) [ASG-C-V-A-50.000MHz](#) [ASG-D-V-A-500.000MHz](#) [ASHEK2-32.768KHZ-LT](#) [AXS-5032-04-12](#) [AIML-0805-470K-](#)
[T](#) [ARJ-150A](#) [AOCJY3A-10.000MHZ-E](#) [ASFL1-50.000MHZ-EK-T](#) [ASVTX-09-16.000MHZ-T](#) [AOCTQ5-X-10.000MHz-M10-SW](#)
[AMPMAFB-19.2000T](#) [ABL-10.000MHZ-D-T](#) [ABM3B-27.120MHZ-10-D2H-T](#) [EP1400SJETTSC-11.0592M](#) [EP1400SJETTSC-2.000M](#)
[EHH1100TS-13.560M](#) [ABL-16.384MHZ-B2](#) [ABLJO-V-155.520MHZ](#) [ABM3B-26.000MHZ-10-D-1-G-T](#) [AIRD-01-680K](#) [AOCJY-](#)
[10.000MHz](#) [AOCJY2-10.000MHz](#) [AOCJY3-40.000MHZ-E](#) [AOCJY-38.880MHZ-F](#) [AOCJY3A-100.000MHz-E](#) [APAMS-119](#) [ASG2-D-X-A-](#)
[1000.000MHz](#) [ASG-D-X-A-200.000MHz](#)