

2.5Vdc CMOS COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR



3.2 x 2.5 x 1.2m m

ASE2 SERIES



FEATURES:

- Compact and low in height at 1.2mm
- Low current consumption
2mA typ. for 19.2MHz
- Tri state function
- Suitable for RoHS reflow
- Tight stability option ± 20 ppm for -40 to +85°C
- Seam sealed package assures high reliability

APPLICATIONS:

- CCD clock for VTR camera
- Equipment connected to PC or PC cards
- Wireless communication

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	0.625	-----	166	MHz	
Operating Temperature	-10	-----	+70	°C	STD (See options)
Storage Temperature	-55	-----	+125	°C	
Overall Frequency Stability	-100	-----	+100	ppm	See options
Supply Voltage (Vdd)	+2.375	2.5	+2.625	V	
Supply Current (Idd)	-----	2	8	mA	0.625 ~ 19.99 MHz
	-----	3	8		20 ~ 31.99 MHz
	-----	5	15		32 ~ 59.99 MHz
	-----	12	20		60 ~ 125.0 MHz
Symmetry @ 1/2Vdd	45	-----	55	%	0.625 ~ 89.999 MHz
	40	-----	60		90 ~ 125.0 MHz
Rise and Fall Time (Tr/Tf)	-----	3	5	ns	0.625 ~ 19.99 MHz
	-----	3	5		20 ~ 31.99 MHz
	-----	3	5		32 ~ 59.99 MHz
	-----	3	5		60 ~ 125.0 MHz
Output Load	-----	-----	15	pF	CMOS
Output Voltage (VOH)	0.9* Vdd	-----	-----	V	
Output Voltage (VOL)	-----	-----	0.1* Vdd	V	
Start-up Time	-----	0.6	3	ms	0.625 ~ 19.99 MHz
	-----	0.6	3		20 ~ 31.99 MHz
	-----	0.6	3		32 ~ 59.99 MHz
	-----	1.3	2		60 ~ 125.0 MHz
Tri-state function	"1" (VIH \geq 0.7*Vdd) or Open: Oscillation; "0" (VIL<0.3*Vdd) : Hi Z				
RMS Jitter:	-----	2	5	ps	0.625 ~ 19.99 MHz
	-----	2	5		20 ~ 31.99 MHz
	-----	2	5		32 ~ 59.99 MHz
	-----	2	5		60 ~ 125.0 MHz
Aging at 25°C (first year)	-5	-----	+5	ppm	
Stand-by Current:	-----	-----	10	μ A	

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ASE2 - MHz - - -

Frequency in MHz
e.g. 0.625MHz
24.576MHz
14.31818MHz
26.000MHz
200.000MHz

Operating Temp.
I: 0°C ~ +50°C
D: -10°C ~ +60°C
E: -20°C ~ +70°C
F: -30°C ~ +70°C
N: -30°C ~ +85°C
L: -40°C ~ +85°C

Overall Freq. Stability
J(*): ± 20 ppm
R: ± 25 ppm
K: ± 30 ppm
H: ± 35 ppm
B: ± 40 ppm
C: ± 50 ppm

Packaging
Blank: Bulk
T: 1000pcs/Reel

Contact ABRACON for wider temperature range.

*: Temp options I, D, E, and -10°C to +70°C only

ABRACON IS
ISO9001:2008
CERTIFIED



ABRACON
CORPORATION

Visit www.abracon.com for Terms & Conditions of Sale
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

Revised: 06.29.11

