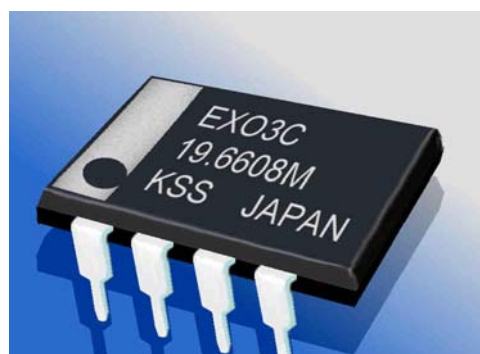


EXO-3 Series

- 8 Pin DIL plastic package
- Low power consumption
- Suitable for auto insertion
- Programmable frequency divider



Parameter		
Frequency Range	12MHz to 24.576MHz	30.0MHz to 40.0MHz
Standard Frequency	Table 1	Table 2
Divider Select	Table 3	
Frequency Stability	+/-100ppm	+/-150ppm
Operating Temperature	-10°C to +70°C	
Supply Voltage	+5.0B +/- 0.5V	
Current Consumption	20mA max (8mA Typ / 16.0MHz)	
Output Waveform	CMOS	
Symmetry	40~60	
Rise & Fall Times	15nS max (10nS typ)	
Output Load	50pF	15pF

Table 1) Standard Frequency (Frequency Stability +/-100ppm)

$1/2^0$	$1/2^1$	$1/2^2$	$1/2^3$	$1/2^4$	$1/2^5$	$1/2^6$	$1/2^7$	$1/2^8$
12.00MHz	6.00MHz	3.00MHz	1.50MHz	750kHz	375kHz	187.5kHz	93.75kHz	46.875kHz
12.288	6.144	3.072	1.536	768	384	192	96	48
12.80	6.40	3.20	1.60	800	400	200	100	50
14.31818	7.15909	3.579545	1.789772	894.88	447.44	223.72	111.86	55.930
14.7456	7.3728	3.6864	1.8432	921.6	460.8	230.4	115.2	57.6
15.9744	7.9872	3.9936	1.9968	998.4	499.2	249.6	124.8	62.4
16.00	8.00	4.00	2.00	1000	500	250	125	62.5
16.384	8.192	4.096	2.048	1024	512	256	128	64
17.734476	8.867238	4.433619	2.216809	1108.4	554.2	277.1	138.55	69.275
18.432	9.216	4.608	2.304	1152	576	288	144	72
19.6608	9.8304	4.9152	2.4576	1228.8	614.4	307.2	153.6	76.8
20.00	10.00	5.00	2.50	1250	625	312.5	156.25	78.125
24.00	12.00	6.00	3.00	1500	750	375	187.5	93.75

ECM Programmable Oscillator

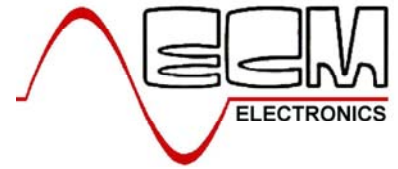
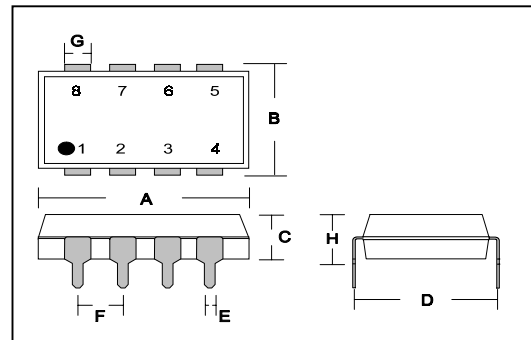


Table 2) Standard Frequency (Frequency Stability +/-150ppm)

$1/2^0$	$1/2^1$	$1/2^2$	$1/2^3$	$1/2^4$	$1/2^5$	$1/2^6$	$1/2^7$	$1/2^8$
30.00MHz	15MHz	7.50MHz	3.75MHz	1.875MHz	937.5kHz	468.74kHz	234.375kHz	117.1875kHz
32.0	16	8	4	2	1000	500	250	125
36.0	18	9	4.5	2.25	1125	562.5	281.25	140.625
40.0	20	10	5	2.50	1250	625	312.5	153.625

Table 3) Function Table

Input			Output		
Select			ST	F(#1)	D(#2)
C	B	A	H	fo Clock	fo. $1/2$ Clock
L	L	L	H	fo Clock	fo. $1/2^2$ Clock
L	L	H	H	fo Clock	fo. $1/2^3$ Clock
L	H	L	H	fo Clock	fo. $1/2^4$ Clock
L	H	H	H	fo Clock	fo. $1/2^5$ Clock
H	L	L	H	fo Clock	fo. $1/2^6$ Clock
H	L	H	H	fo Clock	fo. $1/2^7$ Clock
H	H	L	H	fo Clock	fo. $1/2^8$ Clock
H	H	H	H	fo Clock	fo. $1/2^9$ Clock
-	-	-	L	L	L



Pin	1	2	3	4	5	6	7	8
	Out F	Out 2 D	ST	GND	A	B	C	VDD

A	B	C	D	E	F	G	H
12.8	7.62		7.62	0.5	2.54	0.8	5.08

Dimensions in mm

ECM Electronics Limited, Penmaen House, Ashington, West Sussex, RH20 3JR, UK
 Tel: +44(0)1903 892810; Fax: +44(0)1903 892738. Email: sales@ecmelectronics.co.uk

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