

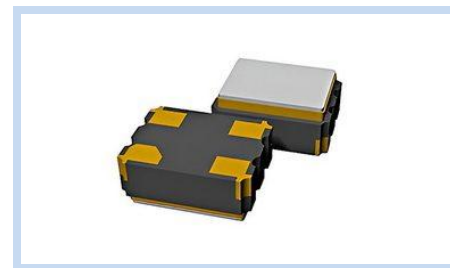
Ceramic Crystal Oscillator SMD 3.2 x 2.5mm CMOS

MO3 Series

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FEATURE

- Output Logic: CMOS
- Tri-State Function
- High Precision and High Frequency Stability
- Applications: Wired Network, Mobile Communication, Bluetooth, WiMAX, WLAN, Set-Top Box, HDTV



ELECTRICAL CHARACTERISTICS

Item	Min	Typ	Max	Units
Nominal Frequency Range	0.032768	-	125.000	MHz
Supply Voltage (V_{DD})	1.8	-	5.5	V
Overall Frequency Stability Range	-20	-	+20	ppm
	-100	-	+100	
Operating Temperature Range	0	-	+60	°C
	-40	-	+85	
Storage Temperature Range	-55	-	+125	
Supply Current	-	-	15	mA
Symmetry (Duty Cycle)	45	50	55	%
Rise/ Fall Time, T_r (10% ~90% V_{DD}) / T_f (90% ~10% V_{DD})	-	-	10	ns
Output Voltage	High (V_{OH})	90%	-	V_{DD}
	Low (V_{OL})	-	10%	
Output Load (CMOS)	-	-	15	pF
Start Up Time	-	-	5	ms
Frequency Aging First Year at 25°C ± 3°C	-3		3	ppm
Pin 1, Tri-State Function	Pin 1 = "H" or "open": Output active at Pin 3 Pin 1 = "L": Output is high impedance at Pin 3			--

Note:

1. Overall frequency stability range include 25°C tolerance, operating temperature change, input voltage change, load change, aging, shock and vibration.
2. For stable operation, it is recommended that the bypass capacitor (0.01 μ F) placed between V_{DD} and GND to minimize power supply line noise.

DIMENSIONS

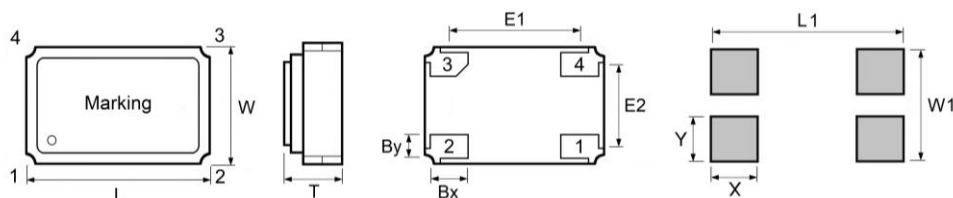


Fig.4

Unit: mm

Size	L	W	T	Bx	By	E1	E2	X	Y	L1	W1	Fig
3225	3.2 ±0.15	2.5 ±0.15	1.2 max	0.90	0.65	2.10	1.65	1.30	1.30	3.40	3.20	4

Note: Pin 1: Tri-State; Pin 2: GND; Pin 3: Output; Pin 4: V_{DD} .

Ceramic Crystal Oscillator

SMD 3.2 x 2.5mm CMOS

MO3 Series

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DIMENSIONS – MOx Series

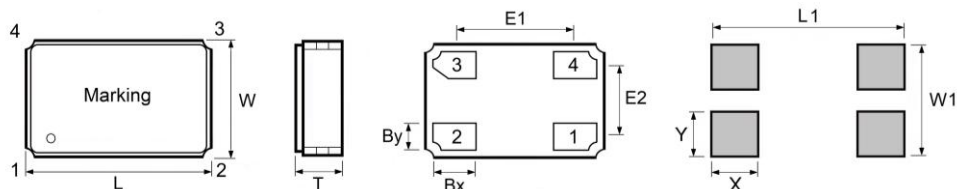


Fig.1

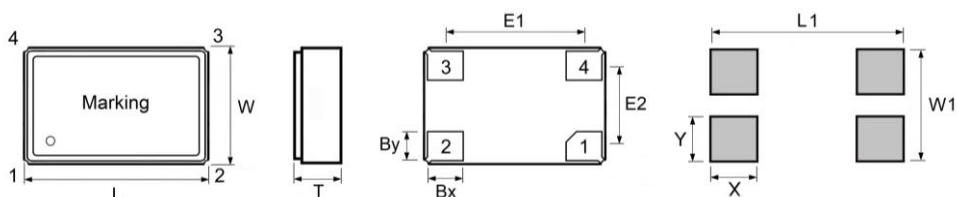


Fig.2

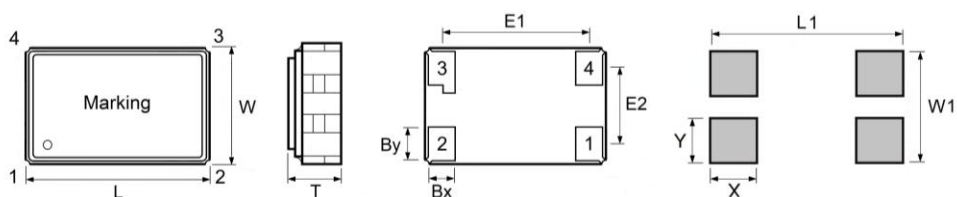


Fig.3

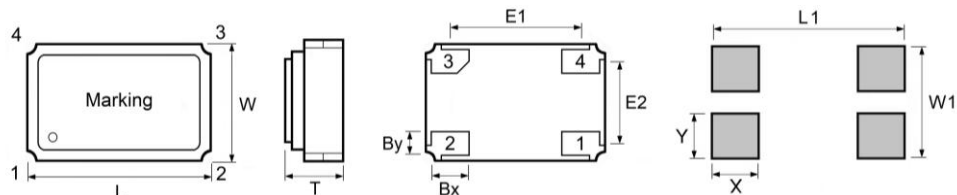


Fig.4

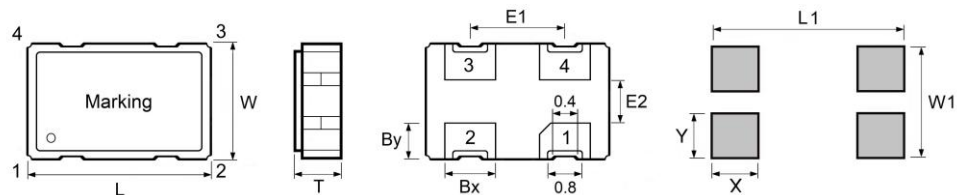


Fig.5

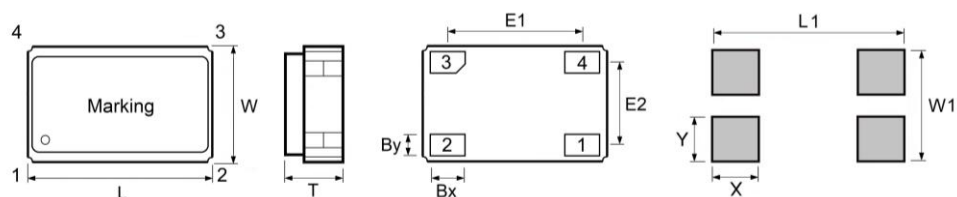


Fig.6

Unit: mm

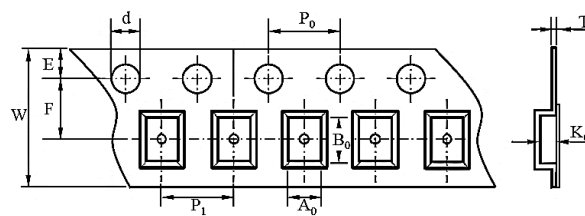
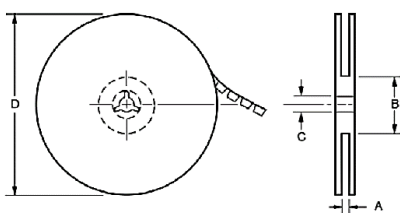
Series	Size	Pad	L	W	T max	Bx	By	E1	E2	X	Y	L1	W1	Fig
MO1	1612	4	1.6 ±0.1	1.2 ±0.1	0.58	0.55	0.35	0.95	0.75	0.80	0.60	1.80	1.40	1
MOA	2016	4	2.0 ±0.1	1.6 ±0.1	0.90	0.55	0.45	1.25	0.95	0.85	0.75	2.20	1.80	2
MO2	2520	4	2.5 ±0.15	2.0 ±0.15	0.90	0.50	0.62	1.90	1.27	0.90	1.00	2.90	2.27	3
MO3	3225	4	3.2 ±0.15	2.5 ±0.15	1.20	0.90	0.65	2.10	1.65	1.30	1.30	3.40	3.20	4
MO5	5032	4	5.0 ±0.2	3.2 ±0.2	1.40	1.20	1.00	2.54	2.20	1.70	1.50	4.24	3.70	5
MO7	7050	4	7.0 ±0.2	5.0 ±0.2	1.50	1.40	1.10	5.08	3.70	1.80	2.00	6.88	6.20	6

Ceramic Crystal Oscillator SMD 3.2 x 2.5mm CMOS

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PACKAGING SPECIFICATION



Series	Size	Reel Dimension (mm)						Tape Dimensions (mm)									
		A	B	C	D	Dia	Pcs/Reel	A0	B0	d	E	F	K0	P0	P1	T	W
MO1	1612	9.0	60	13.0	180	178	3000	1.4	1.8	1.50	1.75	3.5	0.7	4.0	4.0	0.25	8.0
MOA	2016	9.0	60	13.0	180	178	3000	1.8	2.2	1.50	1.75	3.5	1.3	4.0	4.0	0.25	8.0
MO2	2520	9.0	60	13.0	180	178	3000	2.25	2.7	1.50	1.75	3.5	1.15	4.0	4.0	0.25	8.0
MO3	3225	9.0	60	13.0	180	178	3000	2.7	3.4	1.50	1.75	3.5	1.15	4.0	4.0	0.25	8.0
MO5	5032	13.5	60	13.0	180	178	1000	3.6	5.4	1.50	1.75	5.5	1.4	4.0	8.0	0.25	12.0
MO7	7050	17.5	60	13.0	180	178	1000	5.4	7.4	1.50	1.75	7.5	1.8	4.0	8.0	0.25	16.0

Note: Specifications subject to change without notice.