

ULTRA MINIATURE SPREAD SPECTRUM SMD OSCILLATOR (2.5 x 2.0 x 0.9mm)

FEATURES:

- LOW EMI / EMC
- CMOS OUTPUT
- LOW VOLTAGE



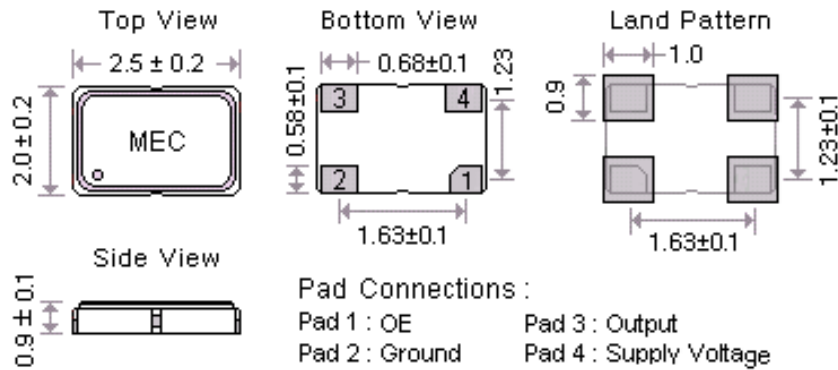
■ SPECIFICATION

PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE
FREQUENCY RANGE	1.8V	1.000		125.000	MHz	
	2.5V	1.000		160.000	MHz	
	3.3V	1.000		160.000	MHz	
FREQUENCY STABILITY		±25		±100	ppm	Please specify in P/N
OPERATING TEMPERATURE RANGE		-40		85	°C	Please specify in P/N
STORAGE TEMPERATURE RANGE		-55		150	°C	
SUPPLY VOLTAGE (±10%)	1.8V	1.62	1.8	1.98	V _{DC}	Please specify in P/N
	2.5V	2.25	2.5	2.75	V _{DC}	Please specify in P/N
	3.3V	2.97	3.3	3.63	V _{DC}	Please specify in P/N
SUPPLY CURRENT	1MHz ≤ f < 60MHz			14	mA	
	60MHz ≤ f < 125MHz			19	mA	
	125MHz ≤ f ≤ 160MHz			24	mA	
OUTPUT	LOGIC FAMILY	CMOS				
	LOAD			15	pF	
	LEVEL LOGIC '1' (V _{OH})	0.9 x V _{DD}			V	
	LEVEL LOGIC '0' (V _{OL})			0.1 x V _{DD}	V	
	SYMMETRY(DUTY CYCLE)	45	50	55	%	@ 1/2 V _{DD} level
	RISE AND FALL TIME (Tr/Tf)			10	nS	
	START-UP TIME		6	10	mS	
STAND-BY VOLTAGE	ENABLE (V _{IH})	0.8 x V _{DD}			V	
	DISABLE (V _{IL})			0.2 x V _{DD}	V	
STAND-BY CURRENT (Pin#1-V _{IL})			1		mA	
ENABLE DELAY TIME				5	mS	
DISABLE DELAY TIME				1	uS	
AGING				±3	ppm/year	@ +25°C ±3°C
EMI REDUCTION	100 MHz at C200 , 3.3 V		18		dB	
	100 MHz at C050 , 3.3 V		12		dB	
	100 MHz at C006 , 3.3 V		5		dB	
MODULATION CARRIER FREQUENCY		24.8		33.6	KhZ	Frequency dependent

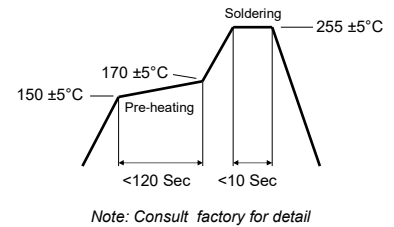
SPREAD SPECTRUM	Total%	Down Spread (code)	Center Spread (code)
Spread Percentage	4.0%	--	±2.0% (C200)
	3.0%	--	±1.5% (C150)
	2.0%	-2.0% (D200)	±1.0% (C100)
	1.5%	-1.5% (D150)	--
	1.0%	-1.0% (D100)	±0.5% (C050)
	0.5%	-0.5% (D050)	±0.25% (C025)
	0.25%	-0.25% (D025)	±0.125% (C012)
	0.125%	-0.125% (D012)	±0.0625% (C006)

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■ PACKAGE DIMENSIONS (mm)



■ REFLOW PROFILE



■ PART NUMBERING GUIDE

