2.5x2mm SMD Clock Oscillator (With Tri-State E/D Function)
Hcmos compatible O/P
AEL 201-Series 1.8MHz to 50.00 MHz

RoHS compliant 2002/95/EC

Operating Conditions

Frequency Stability Options		Frequency Stability (PPM)		
		±25	±50	±100
Standard	-10°C to +70°C	AS	BS	CS
Industrial	-40°C to +85°C	AI	BI	CI

Storage Temp	-55°C to +125°C

Option Codes

Variable	Option Code
+3.3V DC	3
+2.5V DC	25
+1.8V DC	18

Symmetry	H=45:55	N=60:40

Marking & Specification Code Format

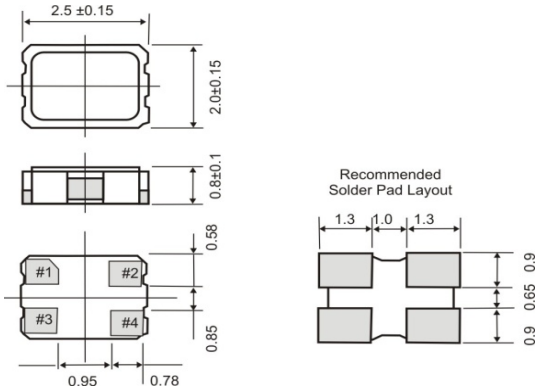
Type	Voltage Code	OTR/Stability	Symm	Frequency	WWYY
201	See right panel	See Above	H or N	ie 20.000	1608

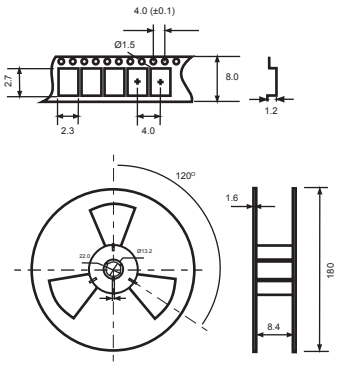
Electrical Characteristics Ta = +25°C, Note Inclusive of VDD ±10%, Load Change ±10%, Ageing, Shock & Vibration

Parameter	Condition	V_{DD} = +3.3V	V_{DD} = +2.5V	V_{DD} = +1.8V
Input Current	15pF Load	20mA Max.	12mA Max.	7mA Max.
Frequency Stability	All Conditions (See Note)	See Options Above		
Symmetry	@50% VDD Level	40/60% (45/55% Available)		
Output Voltage	"0" Level	0.33V Max.	0.25V Max.	0.36V Max.
	"1" Level	2.97V Min.	2.25V Min	1.44V Min.
Rise Time (TR)	10% to 90% V_{DD}	6nS Max.		5nS Max.
Fall Time (TF)	90% to 10% V_{DD}	6nS Max.		5nS Max.
Output Current	"0" Level	2mA Max.		
	"1" Level	2mA Max.		
Start Up Time	0V to V_{DD}	10mS Max.		
Stand-By Current	at "0"-Level	10µA Max.		
Output Load	HCMOS Load	15pF Max.		

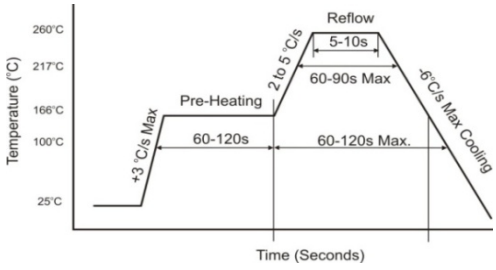
Dimensions (mm)

3,000pcs/Reel





Reflow Solder Profile (260°C)



Pin Connections

Pin	Connection	Enable/Disable Function	
#1	Tri-State/N.C	Pin 1 Input	Pin 8 Output
#2	Ground	Open	Enable O/P
#3	Output	VIH ≥ 2.2V DC	Enable O/P
#4	+V DC		

Static sensitive device