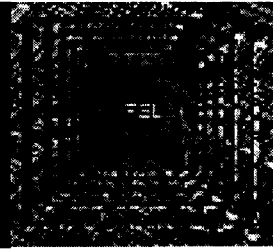


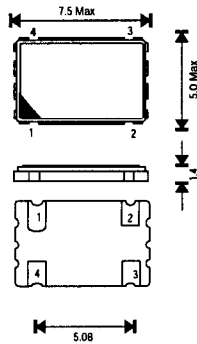
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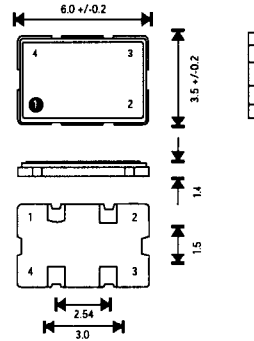
Miniature Ceramic Encapsulated SMD Clock Oscillators



Quartz Crystal Oscillators



4300 Series



5000 Series

FEATURES

- Small Size
- 3V & 5V Options
- Suitable for Reflow Solder
- Supplied on Tape & Reel

APPLICATIONS

- IT Applications
- Datacommunications
- Telecommunications
- Automotive Electronics

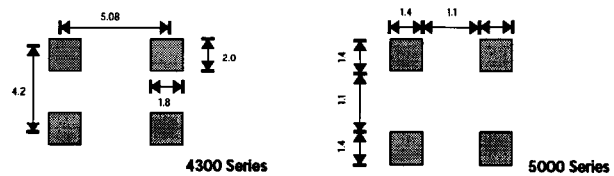
STANDARD SPECIFICATION

Parameters	Conditions	Frequency (MHz)	AEL Model Number					
			4300	4350	4303	5000	5050	5003
		Variant	Standard	Heavy Load	3.3 Volt	Standard	Heavy Load	3.3 Volt
Output	TTL	1.800 - 106.250	101S-TTL Max	10N-TTL Max	101S-TTL Max	101S-TTL Max	10N-TTL Max	101S-TTL Max
	Hcmos	1.800 - 106.250	15pF Max	50pF Max	15pF Max	15pF Max	50pF Max	15pF Max
Package			7.5mm x 5.0mm x 1.4mm Surface Mount			6.0mm x 3.5mm x 1.4mm Surface Mount		
Tristate			Yes	Yes	Yes	Yes	Yes	Yes
Overall Stability	All Conditions	1.800 - 106.250	±/-100PPM			±/-100PPM		
Op. Temp. Range			-10°C to +70°C			-10°C to +70°C		
Storage Temp Range			-55°C to +125°C			-55°C to +125°C		
Symmetry	At 50% V _{DD}	1.800 - 50.000	45:55			40:60		
		1.800 - 106.250	45:55			40:60		
Rise Time	10% V _{DD} - 90% V _{DD}	1.800 - 106.250	-	-	6nS Max	-	-	6nS Max
	0.5V - 4.5V		10nS Max	5nS Max	-	10nS Max	5nS Max	-
Fall Time	90% V _{DD} - 10% V _{DD}	1.800 - 106.250	-	-	6nS Max	-	-	6nS Max
	4.5V - 0.5V		10nS Max	5nS Max	-	10nS Max	5nS Max	-
Output Voltage	"0" Level (Max.)	1.800 - 106.250	0.5V Max			10% V _{DD} Max		
	"1" Level (Min.)		4.5V Min			0.5V Min		
Input Voltage	+/-10%	1.800 - 106.250	+5.0V DC	+5.0V DC	+3.3V DC	+5.0V DC	+5.0V DC	+3.3V DC
		1.800 - 25.000	13mA Max	25mA Max	10mA Max	13mA Max	25mA Max	15mA Max
Input Current (Max)		25.000 - 32.000	24mA Max	40mA Max	10mA Max	24mA Max	40mA Max	15mA Max
		32.000 - 50.000	24mA Max	40mA Max	15mA Max	24mA Max	40mA Max	15mA Max
		50.000 - 67.000	-	60mA Max	18mA Max	-	-	-
		67.000 - 80.000	-	73mA Max	30mA Max	-	-	-
		80.000 - 106.250	-	-	30mA Max	-	-	-
Start-Up Time	0.0V - 3.3V	1.800 - 106.250	-	-	10mS	-	-	10mS
	0.0V - 5.0V		10mS	10mS	-	10mS	10mS	-

ORDERING CODE

SOLDER PATTERN

Stability	Temp. Range
B = ± 50 PPM	S = -10°C to +70°C
C = ± 100PPM	I = -40°C to +85°C



e.g AEL 4303CS would be ±/-100PPM over -10°C to +70°C with +3.3V Supply



Crystals Limited

quartz based frequency control components

Order Hotline +44 1293 524245

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