

# TTL OUTPUT FULL SIZE DIP 5.0V CRYSTAL CLOCK OSCILLATOR

ACT Series



RoHS/RoHS II Compliant.



20.4 x 12.9 x 5.3mm

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

## FEATURES:

- Hermetically sealed metal package
- TTL output
- Case ground for EMI protection
- Tri-state Enable/Disable options

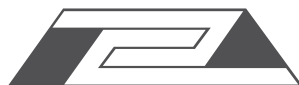
## APPLICATIONS:

- Provide clock signals for microprocessors and digital circuits
- TTL output for low EMI applications

## STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	0.4		160.0	MHz	
Operating Temperature	-10		+60	°C	See options
Storage Temperature	-55		+125	°C	
Overall Frequency Stability*	-100		+100	ppm	See options
Supply Voltage (Vdd)	4.5	5.0	5.5	Vdc	
Input Current	0.4MHz ~ 24.9MHz		20	mA	
	25.0MHz ~ 99.9MHz		40		
	100.0MHz ~ 160.0MHz		80		
Symmetry (@ 1.4Vdc)	40		60	%	See options
Rise and Fall Time (Tr/Tf)	0.4MHz ~ 24.9MHz		10	ns	
	25.0MHz ~ 99.9MHz		5		
	100.0MHz ~ 160.0MHz		4		
Output Load			10	TTL	
Output Voltage	VOH	2.4		Vdc	
	VOL		0.4	Vdc	
Tri-state Function	"1" (VIH≥2.2Vdc) or Open: Oscillation "0" (VIL<0.8Vdc) : Hi Z				
Output Disable/Enable time			100	ns	For option "A" only
Start-up Time			10	ms	

\* Overall frequency stability includes initial tolerance and temperature stability.



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## OPTIONS & PART IDENTIFICATION: (Left blank if standard)

ACT- [ ] MHz- [ ] - [ ] - [ ] - [ ] - [ ]

**Frequency in MHz**  
e.g. 24.576MHz  
14.31818MHz  
26.000MHz

**Operating Temp.**

I: 0°C ~ +50°C
E: -20°C ~ +70°C
F: -30°C ~ +70°C
N: -30°C ~ +85°C
L: -40°C ~ +85°C

**Freq. Stability**

Y5*: ± 15 ppm
J*: ± 20 ppm
R**: ± 25 ppm
K: ± 30 ppm
H: ± 35 ppm
C: ± 50 ppm

**Symmetry**

S: 45/55%@1.4Vdc  
For F<70MHz only

**Tri-state**

A: Tri-state on pin 1

**Packaging**

Blank: Tube
TY: Tray

**Pin form**

G: Gull Wing
G3: Gull Wing
GHT: Gull Wing Reflow
Q45: 0.45" (11.43)
Q40: 0.40" (10.16)
Q35: 0.35" (8.89)
Q30: 0.30" (7.62)
Q25: 0.25" (6.35)
Q20: 0.20" (5.08)
Q15: 0.15" (3.81)
Q10: 0.10" (2.54)

Note:  
\*: Temp option I, E, -10 ~ +60°C only  
\*\*: Temp option I, E, F, N, -10 ~ +60°C only

## OUTLINE DIMENSIONS:

Pin	Function
1	Tri-State/NC
7	Case GND
8	Output
14	Vdd

**Dimensions: inches (mm)**

Packaging: 25pcs /tube

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