



# 5.0V HCMOS/TTL COMPATIBLE 14 PIN DIP CRYSTAL CLOCK OSCILLATOR



S13R8, S14R8,  
S15R8, S16R8

**ABSOLUTE MAXIMUM RATINGS**

TABLE 1.0

PARAMETER	UNITS	MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Storage Temperature		-55	-	125	°C	
Supply Voltage	(Vcc)	-0.5	-	7.0	Vdc	

**MODEL SPECIFICATIONS:**

**MODEL S13R8**

TABLE 2.0

PARAMETER	UNITS	MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Frequency Range	(Fo)	1.0	-	80	MHz	
Frequency Tolerance:		-25	-	25	ppm	1
Operating Temperature Range		0	-	70	°C	

**MODEL S14R8**

PARAMETER	UNITS	MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Frequency Range	(Fo)	1.0	-	80	MHz	
Frequency Tolerance:		-50	-	50	ppm	1
Operating Temperature Range		0	-	70	°C	

**MODEL S15R8**

PARAMETER	UNITS	MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Frequency Range	(Fo)	1.0	-	80	MHz	
Frequency Tolerance:		-100	-	100	ppm	1
Operating Temperature Range		0	-	70	°C	

**MODEL S16R8**

PARAMETER	UNITS	MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Frequency Range	(Fo)	1.0	-	80	MHz	
Frequency Tolerance:		-100	-	100	ppm	1
Operating Temperature Range		-40	-	85	°C	

**OPERATING SPECIFICATIONS**

TABLE 3.0

PARAMETER	UNITS	MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Supply Voltage	(Vdd)	4.5	5.0	5.5	Vdc	
Supply Current	1.0 to 24.999 MHz	(Icc)	-	25	mA	
	25 to 49.999 MHz	(Icc)	-	45	mA	
	50 to 80.000 MHz	(Icc)	-	60	mA	

**TTL OUTPUT CHARACTERISTICS**

TABLE 4.0

PARAMETER	UNITS	MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
LOAD		-	-	10	TTL Loads	
Voltage	(High)	(Voh)	2.4	-	Vdc	
	(Low)	(Vol)	-	0.5	Vdc	
Current	(High)	(Ioh)	-16	-	mA	
	(Low)	(Iol)	-	16	mA	
Duty Cycle measured at 50% of Vcc		45	50	55	%	
Rise / Fall Time measured at 10% to 90%		-	4	5	nS	
Start-Up Time		-	3	10	mS	
Jitter (BW=10kHz to 20MHz)		-	-	5	ps rms	
Jitter (BW=12kHz to 20MHz)		-	-	1	ps rms	

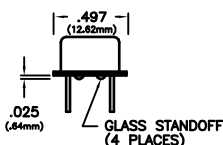
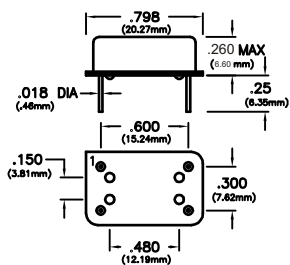
**PACKAGE CHARACTERISTICS**

TABLE 5.0

Package	Hermetically sealed metal package
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Note:

- 1) Inclusive of calibration @ 25°C, frequency vs. temperature stability, supply voltage change, load change, shock and vibration, 10 years aging.



Dimensional Tolerance:  
±.005 (.127mm)  
±.02 (.508mm)

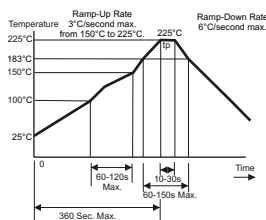


TABLE 6.0

Pad	Connection
1	N/C
7	Ground
8	Output
14	Vcc

**ORDERING INFORMATION**

S15R8 - 25.0MHz

CLOCK SERIES

CENTER FREQUENCY

Specifications subject to change without notice.