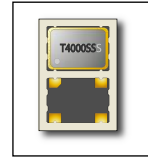


# T4000SS

## Crystal Oscillator

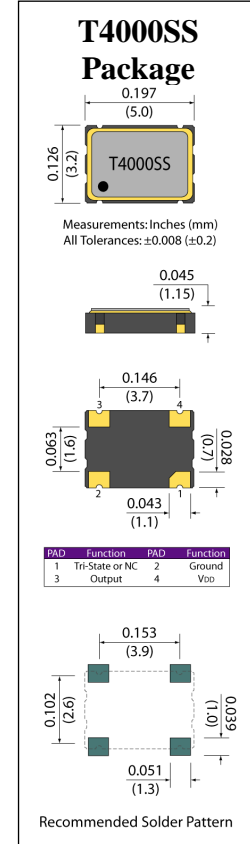


**FEATURES:**  
**Spread Spectrum**  
**Ceramic Package**

**Low EMI Out**  
**5.0 x 3.2 x 1.15 mm**

Parameter	Unit	Min.	Max.
Frequency Range	MHz	10.00	168.00
Frequency Stability	ppm	See Table	
Storage Temperature Range	°C	-55	+125
Voltage	V	2.5, 3.3 ±5%	
Current Consumption	mA	-	15
Spread Spectrum			
Center Spread		±0.125% to ±2.0%	0.125% step
Down Spread		-0.250% to -4.0%	0.250% step
Output Waveform		CMOS	
Output Load	pF	-	15
Output Voltage Logic High (VOH)	V	90%	-
Output Voltage Logic Low (VOL)	V	-	10%
Transition Time (Rise and Fall)	nSec	-	200
Duty Cycle		40/60% standard	
Tri-state			
Enable	V	0.7	-
Disable	V	-	0.3
Start-up Time	mSec	-	10
Standby Current	µA	-	15
Period Jitter: Cycle to Cycle	pSec	-	100

Maximum frequency for 3.3 V is 200.00 MHz; Maximum frequency for 2.5 V is 168.00 MHz.  
 Frequency Stability is inclusive of Operating Temperature Range, Supply Voltage, Aging, Current and Load.



### Frequency Stability

Temperature	Stability (ppm)
-10 to 60°C	±50, ±100
-20 to 70°C	±50, ±100
-40 to 85°C	±50, ±100

### Environmental

Terminal Material	W
Terminal Plating	Ni-Au
REACH Compliant	Yes
RoHS Compliant	Yes
RoHS Exemptions	No
Re-flow Temp. Max.	260°C
MSL	1



**Example Part Number:** T4000SS-18-A-27-24M576

T4000SS	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
		1		2		3		4
		<b>Voltage</b>		<b>Stability</b>		<b>Temp. Range</b>		<b>Frequency</b>
		33= 3.3 V		A= ±100		16= -10 to 60°C		Frequency in MHz
		25= 2.5 V		B= ±50		27= -20 to 70°C		i.e. 24M576
						48= -40 to 85°C		use M for decimal point