



- EMI Reduction
- Temperature Ranges to -40°C to +85°C
- Supply Voltage: 3.3V

### ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (F <sub>o</sub> )	1 ~ 200MHz
Operating Temperature Range	-40 ~ +85°C
Storage Temperature Range (T <sub>STG</sub> )	-55 ~ +125°C
Supply Voltage (V <sub>DD</sub> )	3.3V±10%
Frequency Stability <sup>2</sup>	±50PPM (Standard)
Input Current (I <sub>DD</sub> )	
1 ~ <50MHz	20mA
50 ~ <80MHz	25mA
80 ~ <100MHz	30mA
100 ~ 200MHz	40mA
Standby Input Current	10µA
Output Symmetry (50% V <sub>DD</sub> level)	40% ~ 60%
Rise/Fall Time (10%/90% V <sub>DD</sub> Levels) (T <sub>R</sub> /T <sub>F</sub> )	
13 ~ <50MHz	10nS
50 ~ <80MHz	8nS
80 ~ <100MHz	5nS
100 ~ 160MHz	4nS
>160 ~ 200MHz	3nS
Output Voltage (V <sub>OL</sub> )	10% V <sub>DD</sub>
(V <sub>OH</sub> )	90% V <sub>DD</sub> Min
Spread Spectrum Function	
Center Spread	±0.125% ~ ±2%
Down Spread	-0.5% ~ 4%
Modulation Frequency	30 ~ 40kHz
Output Load (HCMOS)	15pF
Start-up Time (T <sub>s</sub> )	10mS
Output Disable Time <sup>1</sup>	100nS
Output Enable Time <sup>1</sup>	10mS

### ENABLE / DISABLE FUNCTION

Pin1	Output (pin 3)
OPEN <sup>1</sup>	Active
'1' Level V <sub>IH</sub> ≥ 70%V <sub>DD</sub>	Active
'0' Level V <sub>IL</sub> ≤ 30%V <sub>DD</sub>	High Z

### • Available Options by Stability & Operating Temp

Frequency Stability <sup>2</sup>	Operating Temperature (°C)	Frequency Range (MHz)
±50PPM	-40 ~ +85	1 ~ 200.000
±25PPM	0 ~ +70	1 ~ 200.000
±25PPM	-40 ~ +85	1 ~ 200.000

<sup>1</sup> An internal pull-up resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

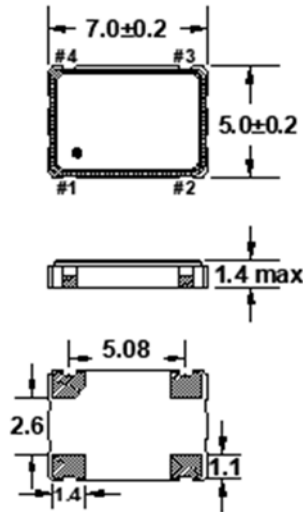
<sup>2</sup> Inclusive of 25°C tolerance, operating temperature range.



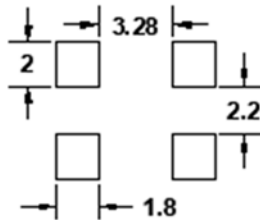
<b>Title / Description:</b> S7SC SERIES STANDARD SPECIFICATIONS	
<b>Drawing Number:</b> S7SC-DOC-1	<b>Size:</b> A
<b>Part Number:</b>	<b>Cage:</b> 61429
<b>Draftsperson:</b> BEC	<b>Approved:</b> MAJ
<b>Revision Date:</b> 09/10/2019	



### DIMENSIONS / MECHANICAL SPECIFICATIONS



#### Recommended Solder Pad Layout



Dimensions in mm

#### Pin Connections

#1 E/D    #3 Output  
 #2 GND   #4 V<sub>DD</sub>

Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Seal Method	Seam
Lead (Pb) Free	Yes
ROHS/REACH Compliant	Yes

#### Notes:

- \*A 0.01μF capacitor should be placed between V<sub>DD</sub> (Pin 4) and GND (Pin2) to minimize power supply line noise.
- \*Dimensional drawing is for reference to critical specifications defined by size measurements.
- Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary.

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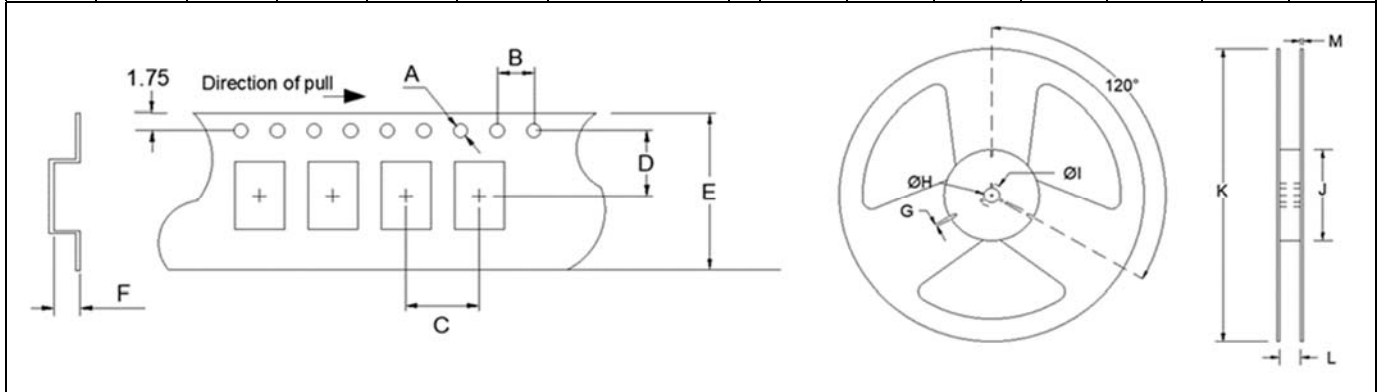
# 7x5mm Spread Spectrum SMD Oscillator

# S7SC

(former FSS73S Series)

## DATASHEET

Tape Specifications (millimeters)							Reel Specifications (millimeters)						
A	B	C	D	E	F	Reel Qty	G	H	I	J	K	L	M
Ø1.5	4.0	8.0	7.5	16.0	2.15	-T1 = 1,000 -T2 = 2,000	2.0	Ø13	Ø21	Ø80	Ø255	17.5	2.0



### Available Options & Part Identification\*

Example: **F S7S C B M 25.0**

F	S7S	C	B		M	25.0
<b>Fox</b>	<b>Model Number</b>	<b>Voltage</b> C = 3.3V±10%	<b>Center Spread</b> N = ±0.125% A = ±0.25% <b>B = ±0.5%</b> C = ±0.75% D = ±1% E = ±1.5% F = ±2%	<b>Down Spread</b> P = -0.25% G = -0.5% H = -1% J = -1.5% K = -2% L = -3% M = -4%	<b>Operating Temperature</b> C = 0 to +70°C <b>M = -40 to +85°C</b>	<b>Frequency</b>

\*Not all frequencies in the frequency range available.



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