

Travelling Merchant: _____

DATASHEET

Standard: OS754-A319-20.00MHz

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2019.09.10			

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2012.09.25
1.1	The “Mechanical Structure” changed	<i>Amway</i>	2019.09.10



1. Electrical Parameters

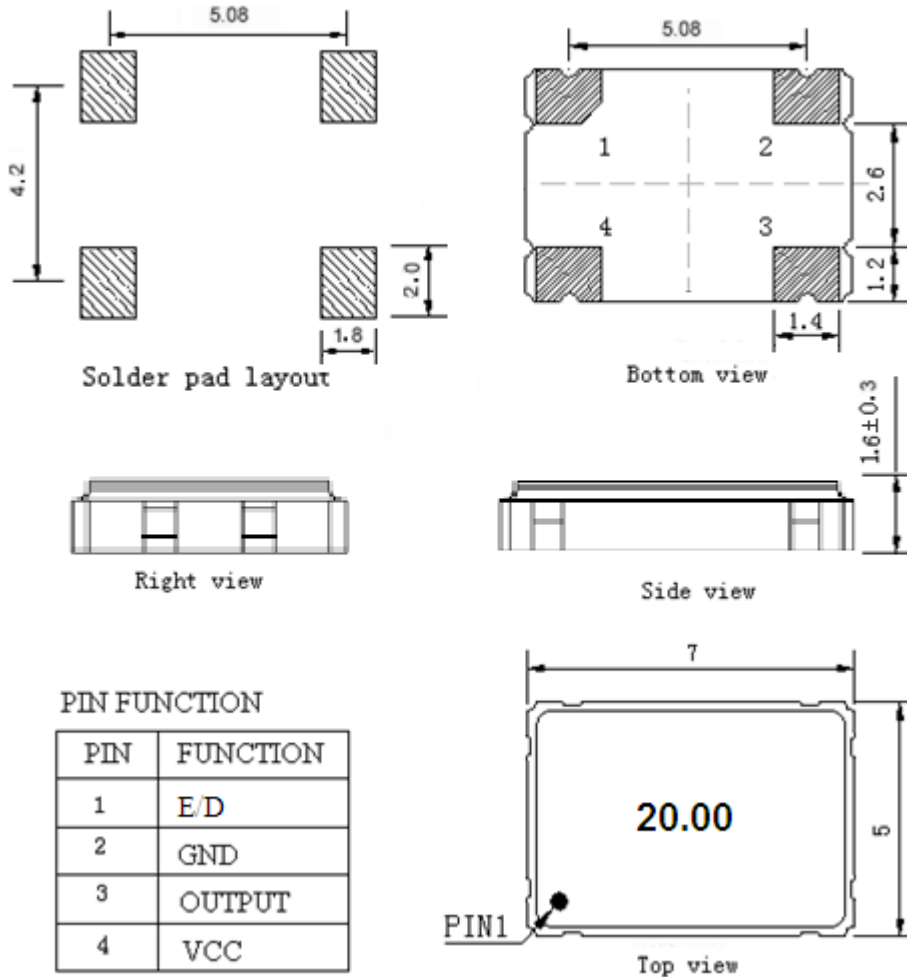
MODEL: OS754-A319-20.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	20.00			MHz	
	Output Waveform	HCMOS				
	Output Low Voltage			0.33	V	$V_{cc}=3.3V, O_{load}=15\text{ pF}$
	Output High Voltage	2.97			V	$V_{cc}=3.3V, O_{load}=15\text{ pF}$
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (20%~80%)			4	ns	@25°C
	Load	15			pF	
	Jitter		0.5	1	ps	RMS (12KHz ~20MHz)
	Start-up time			10	ms	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-25		+25	$\times 10^{-6}$	T_A varied from -40°C to 85°C, measurement referenced to frequency observed with $T_A=25^\circ\text{C}, V_{cc}=3.3V, O_{load}=15\text{ pF}$, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-15		+15	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^\circ\text{C}, V_{cc}=3.3V$ within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-3		+3	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^\circ\text{C}, V_{cc}$ varied from 3.13V to 3.47V, and $O_{Load}=15\text{ pF}$.
	Frequency Tolerance vs. Load	-1		+1	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A=25^\circ\text{C}, V_{cc}=3.3V, O_{Load}=15\text{ pF}$.
	Aging Tolerance 1 Year	-3		+3	$\times 10^{-6}$	$T_A=25^\circ\text{C}, V_{cc}=3.3V$, and after 1h of operation.
Power Supply	Current Consumption			7	mA	@25°C, $V_{cc}=3.3V, O_{Load}=15\text{ pF}$.
	Supply Voltage	3.13	3.3	3.47	V	



Environmental Conditions	Operable Temperature	-40		+85	°C	
	Storage Temperature	-55		+105	°C	
	ESD Level	Human Body Model,class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010.				
	Moisture Sensitivity Level	Level 2.				
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z) .IEC 68-2-06 Test Fc.				
	Shock	100g; 6ms; half sine wave (3 times for each 3 directions X , Y , Z),IEC 68-2-27 Test Ea/Severity 50A.				



2. Mechanical Structure(mm)



PIN FUNCTION

PIN	FUNCTION
1	E/D
2	GND
3	OUTPUT
4	VCC

Note1: Tolerance $\pm 0.1\text{mm}$ without mark

Note2: Referential Weight 0.2g

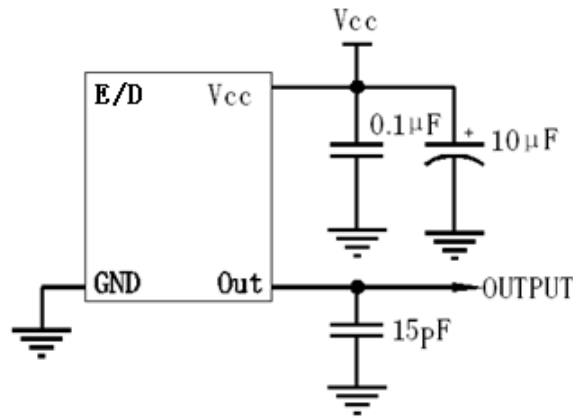
Note3: Enable: $V_{ih} \geq V_{CC} - 1.025V$

Disable: $V_{il} \leq V_{CC} - 2.0V$

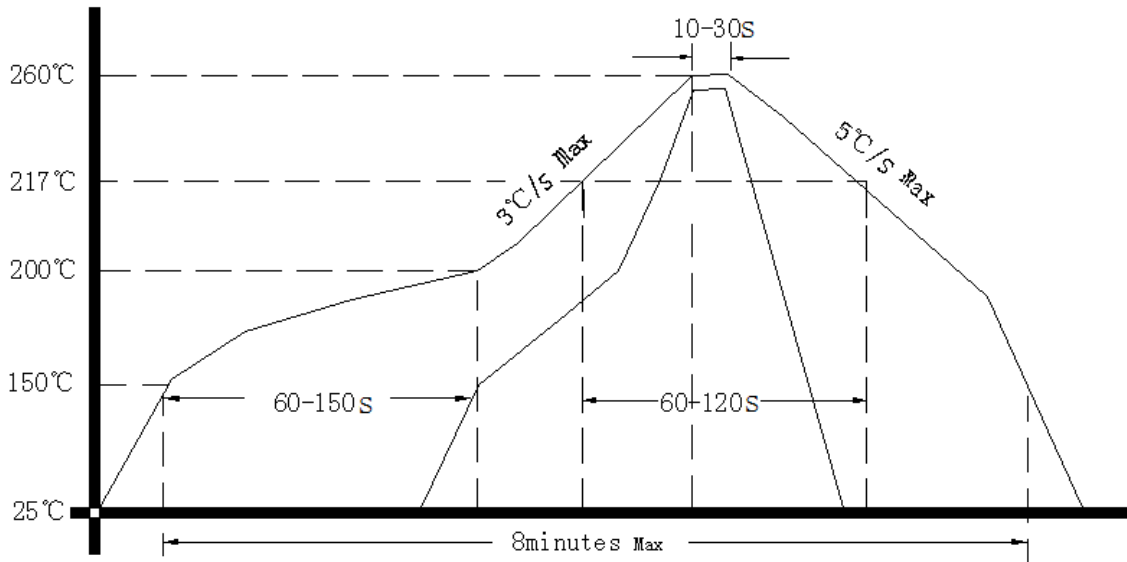
E/D	OUT
high level, open	data
low level	no data



3. Test circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

