Travelling Merchant:_____

DATASHEET

Standard: **T75A-C819-12.80MHz**

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Amway.wei	Carry . Wang	James.Liu	
Date: 2017.01.16			

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1. Electrical Parameters

MODEL： T75A-C819-12.80MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		12.80		MHz	
	Output Waveform		LVCMOS			
	Output Low Voltage			0.4	V	V_{cc}=3.3V, O_{load}=15 pF
	Output High Voltage	2.4			V	V_{cc}=3.3V, O_{load}=15 pF
	Duty Cycle	45	50	55	%	
	Rise / Fall Time （10%~90%）			7	ns	@25℃
	Load		15		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.28		+0.28	ppm	T_A varied from-20℃ to70℃, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, V_{cc}= 3.3V, O_{load}= 15pF.
	Initial Frequency Tolerance	-1		+1	ppm	Measurement referenced to frequency observed with T_A = 25℃, V_{cc}= 3.3V, and after 5 minutes of operation, within 30 days after ex-works.
	Calibration	-4.6		+4.6	ppm	@ 25 ℃, Temperature -20 ℃ to 70 ℃, Load 15pF±5%, Ageing 20 years.
	Frequency Tolerance vs. Supply Voltage	-0.5		+0.5	ppm	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from3.23V to 3.37V, and O_{Load}= 15pF .
	Frequency Tolerance vs. Load	-0.2		+0.2	ppm	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}=3.3V, O_{Load}= 15pF.
	Aging Tolerance Per Day	-0.02		+0.02	ppm	T_A=25℃, V_{cc}=3.3V, and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	ppm	
Power Supply	Current Consumption		4		mA	@25℃, V_{cc}=3.3V, O_{load}=15pF.
	Supply Voltage	3.23	3.3	3.37	V	

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Phase Noise	Phase Noise		-90		dBc/Hz	10Hz
			-115			100Hz
			-127			1KHz
			-137			10KHz
			-143			100KHz
Environmental Conditions	Operable Temperature	-20		+70	℃	
	Storage Temperature	-55		+125	℃	
	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.				
Full Package Storage	Relative humidity (%)	20%～70%				
	Temperature (℃)	-10~35℃				

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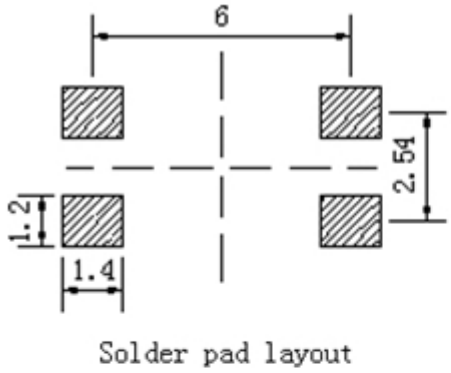
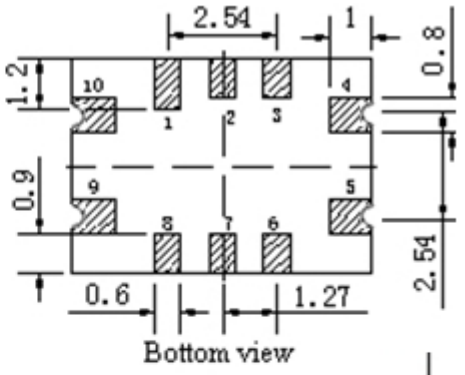
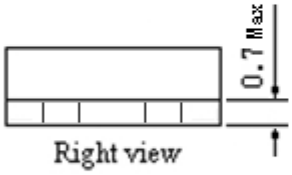
2. Mechanical Structure(mm)



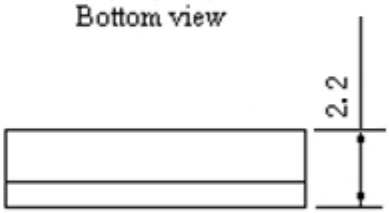
Solder pad layout



Bottom view



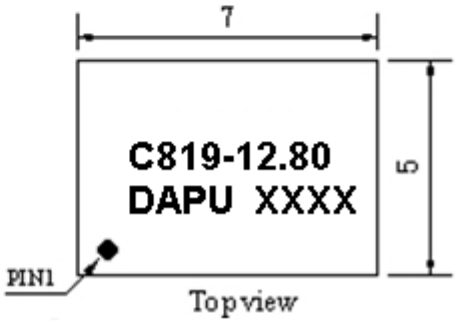
Right view



Front view

PIN FUNCTION

PIN	NOTATION	FUNCTION
1, 2, 3, 6, 7, 8	NC	Not Connect
4	GND	GND
5	OUTPUT	RF Output
9	VCC	Supply Voltage
10	NC	Not Connect



Top view

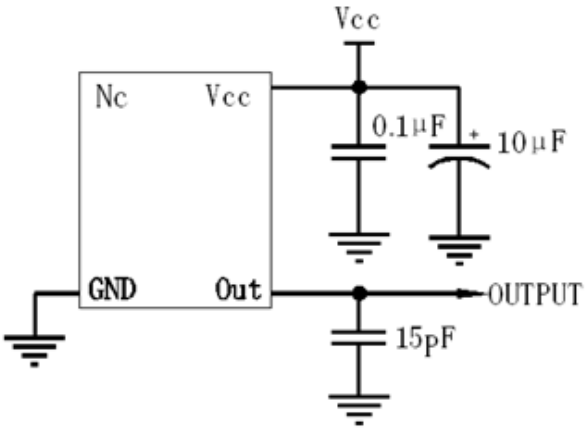
Note1: Tolerance ±0.2mm without mark

Note2: Referential weight 0.2g

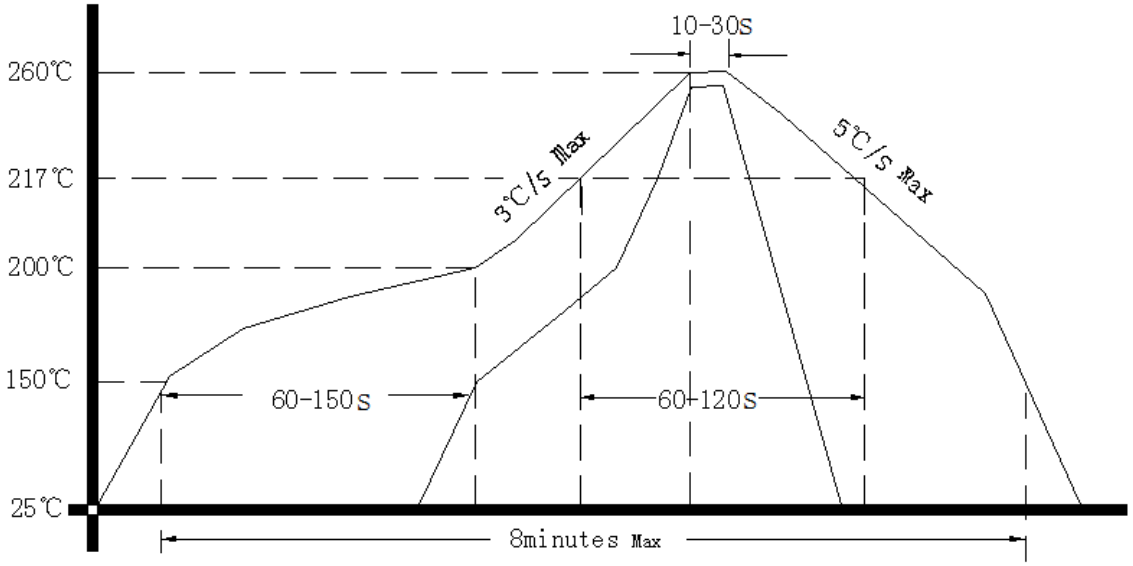
Note3: The first two xx representative: week
After two xx representative: year

Note4: NC is not connect

3. Test circuit



4. Reflow Soldering Curve (RoHS)



Note: If soldering with a hot air gun, ensure the temperature ＜320℃， soldering time ＜15 seconds.

5、Package: Tape & Reel (mm)