

Travelling Merchant: \_\_\_\_\_

# DATASHEET

Standard:     **M11F-Y426-100.00MHZ**    

P/N: \_\_\_\_\_

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2018.04.12			

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## 1. Electrical Parameters

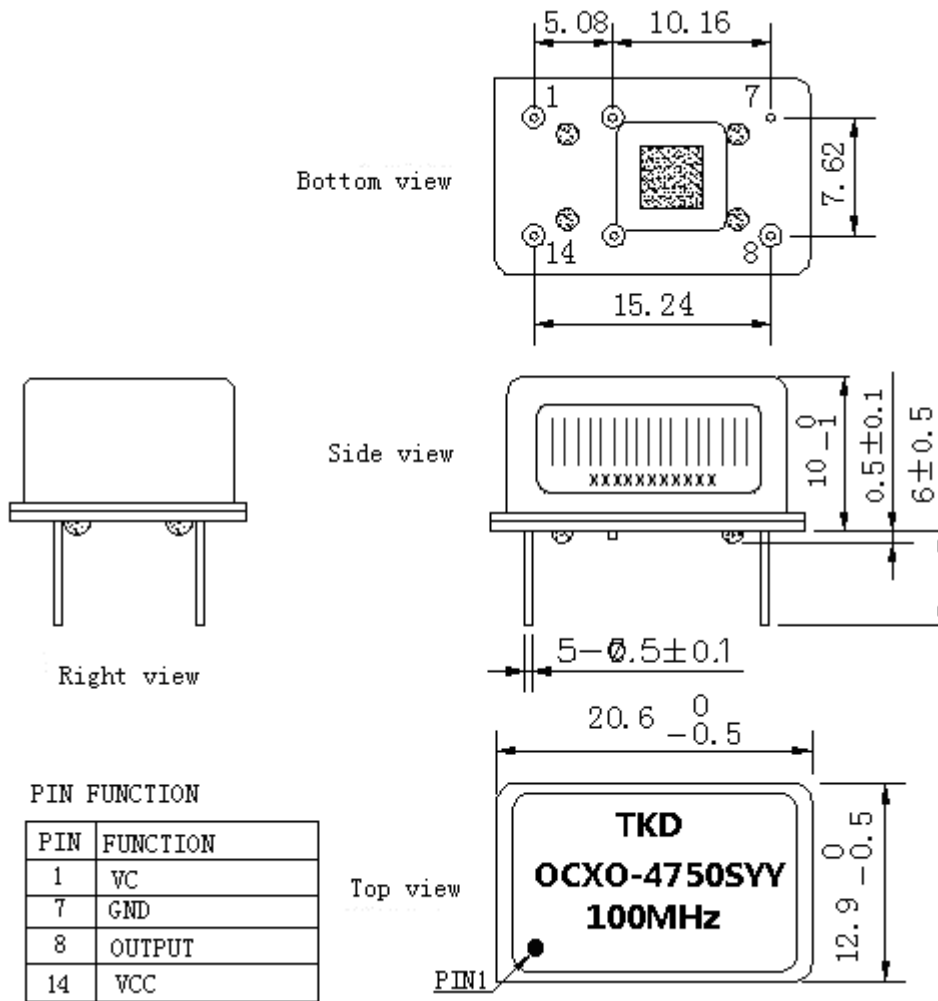
MODEL: M11F-Y426-100.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	100.00			MHz	
	Output Waveform	Sine Wave				
	Level	4	6	8	dBm	
	Harmonics Suppression		-30		dBc	
	Spurious Suppression		-75		dBc	
	Load	50			$\Omega$	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.3		+0.3	$\times 10^{-6}$	$T_A$ varied from $-20^{\circ}\text{C}$ to $70^{\circ}\text{C}$ , measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$ , $V_{cc}=5.0\text{V}$ , $V_c=1.5\text{V}$ $O_{load}=50\Omega$ , temperature variable speed less than $2^{\circ}\text{C}$ per minute.
	Initial Frequency Tolerance	-1		+1	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$ , $V_{cc}=5.0\text{V}$ , $V_c=1.5\text{V}$ within 30 days after ex-works.
	Short-Term Stability Allan Variance			0.5	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to $25^{\circ}\text{C}$ ; 1s, using PN9000 equipment.
	Frequency Tolerance vs. Supply Voltage	-0.01		+0.01	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$ , $V_{cc}$ varied from 4.75V to 5.25V, and $O_{Load}=50\Omega$ .
	Frequency Tolerance vs. Load	-0.01		+0.01	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$ , $V_{cc}=5.0\text{V}$ , $V_c=1.5\text{V}$ $O_{Load}=50\Omega$ .
	Aging Tolerance Per Day	-0.01		+0.01	$\times 10^{-6}$	$T_A=25^{\circ}\text{C}$ , $V_{cc}=5.0\text{V}$ , $V_c=1.5\text{V}$ and after 1h of operation.
	Aging Tolerance 1 Year	-0.8		+0.8	$\times 10^{-6}$	
Power Supply	Current Consumption			45	mA	@ $25^{\circ}\text{C}$ , $V_{cc}=5.0\text{V}$ , $V_c=1.5\text{V}$ , $O_{load}=50\Omega$ .
	Supply Voltage	4.75	5.0	5.25	V	



Voltage Control Characteristics	Frequency Tuning Range			-3	$\times 10^{-6}$	$V_c=0V$ . measurement referenced to $V_c=1.5V$
		-1		+1	$\times 10^{-6}$	$V_c=1.5V$ . measurement referenced to exactly 100.00MHz
		+3			$\times 10^{-6}$	$V_c=3.0V$ . measurement referenced to $V_c=1.5V$
	Linearity	10			%	
Phase Noise	Phase Noise		-140	-130	dBc/Hz	1KHz
			-160	-155		10KHz
			-165	-160		100KHz
Environmental Conditions	Operable Temperature	-20		+70	$^{\circ}C$	
	Storage Temperature	-55		+105	$^{\circ}C$	
	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	Not humidity sensitive.				
	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.					



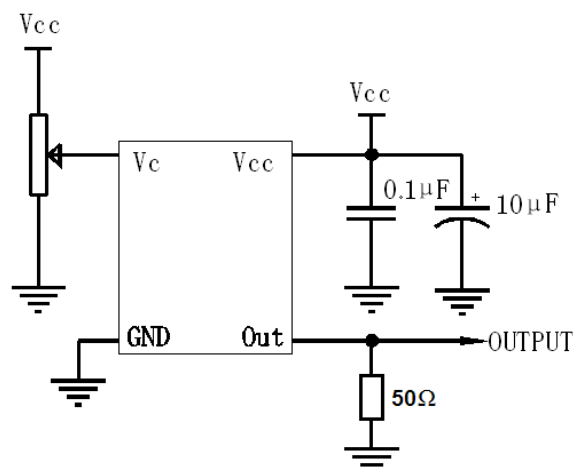
## 2. Mechanical Structure(mm)



**Note1:** Tolerance  $\pm 0.2\text{mm}$  without mark

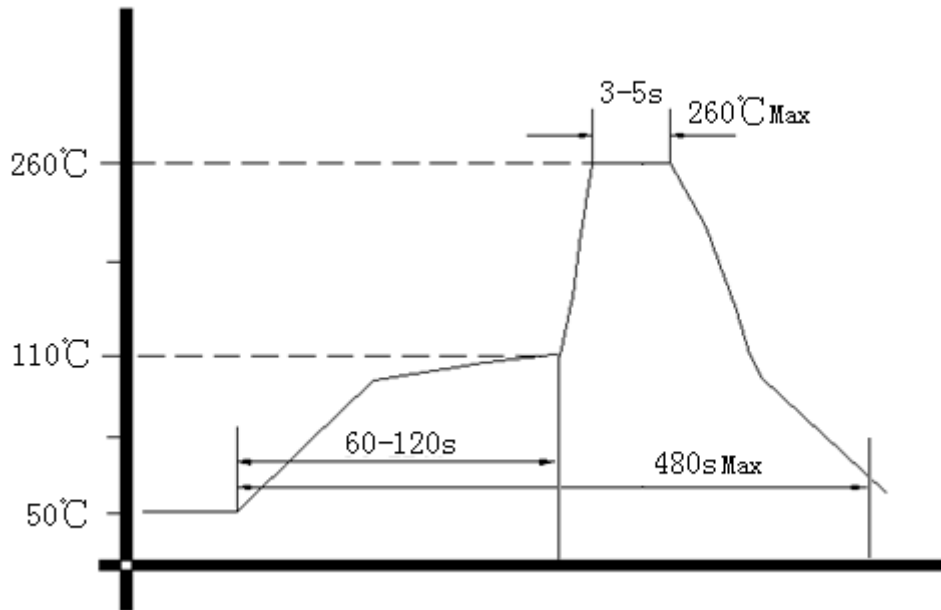
**Note2:** Referential weight 4.2g

## 3. Test circuit





#### 4. Reflow Soldering Curve (RoHS)



#### 5. Package: PVC Tube,16pcs (mm)

