

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

# DATASHEET

Standard:     **T2925-R426-156.25MHz**    

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

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2022.08.19			

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### Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2022.04.18
1.1	Add: minimum output level, maximum supply current spec, RoHS compliance, Reflow soldering profile.	<i>Amway</i>	2022.04.21
1.2	The “Mechanical Structure” changed	<i>Amway</i>	2022.06.08
1.3	Delete “Sub-Harmonics”, Add “Modulation BW” The “Current Consumption”changed	<i>Amway</i>	2022.08.17
1.4	Add “Package”	<i>Amway</i>	2022.08.19



## 1. Electrical Parameters

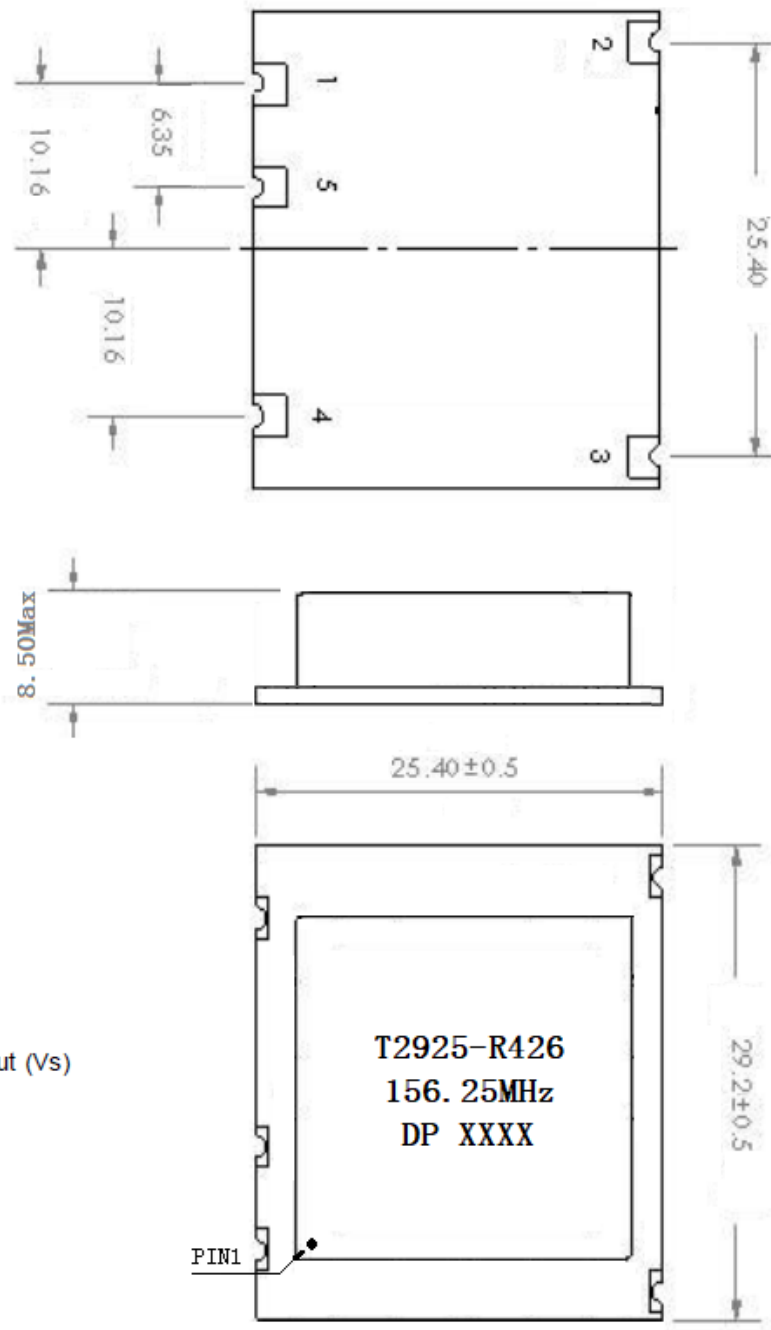
MODEL: T2925-R426-156.25MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	156.25			MHz	
	Output Waveform	Sine Wave				
	Level	0	3	6	dBm	
	Harmonics			-30	dBc	
	Load	50			$\Omega$	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-3		+3	$\times 10^{-6}$	$T_A$ varied from $0^\circ\text{C}$ to $70^\circ\text{C}$ , measurement referenced to frequency observed with $T_A = 25^\circ\text{C}$ , $V_{cc}=5.0\text{V}$ , $V_c=2.5\text{V}$ , $O_{load}=50\Omega$ , temperature variable speed less than $2^\circ\text{C}$ per minute.
	Initial Frequency Tolerance	-1.0		+1.0	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A = 25^\circ\text{C}$ , $V_{cc}=5.0\text{V}$ , $V_c = 2.5\text{V}$ within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^\circ\text{C}$ , $V_{cc}$ varied from 4.75V to 5.25V, $V_c = 2.5\text{V}$ and $O_{Load}=50\Omega$ .
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A= 25^\circ\text{C}$ , $V_{cc}=5.0\text{V}$ , $V_c=2.5\text{V}$ , $O_{Load}=50\Omega$ .
	Aging Tolerance 1st Year	-1.5		+1.5	$\times 10^{-6}$	$T_A=25^\circ\text{C}$ , $V_{cc}=5.0\text{V}$ , $V_c=2.5\text{V}$ and after 1h of operation.
	Aging Tolerance Year (after year 1)	-1.0		+1.0	$\times 10^{-6}$	
	Aging Tolerance 15 Years	-7.0		+7.0	$\times 10^{-6}$	
Power Supply	Current Consumption		39	40	mA	@ $25^\circ\text{C}$
	Supply Voltage	4.75	5.0	5.25	V	



Voltage Control Characteristics	Frequency Tuning Range	-50		-15	$\times 10^{-6}$	$V_c=0V$ . measurement referenced to $V_c=2.5V$	
		-1.0		+1.0	$\times 10^{-6}$	$V_c=2.5V$ . measurement referenced to exactly 156.25MHz	
		+15		+50	$\times 10^{-6}$	$V_c=5V$ . measurement referenced to $V_c=2.5V$	
	Linearity			20	%		
	Modulation BW	500				Hz	
	Slope	Positive					
Phase Noise	Phase Noise			-59	dBc/Hz	10Hz	
				-94		100Hz	
				-119		1KHz	
				-145		10KHz	
				-155		100KHz	
				-155		1MHz	
				-155		10MHz	
				-155		20MHz	
Environmental Conditions	Operable Temperature	-40		+85	$^{\circ}C$		
	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; JEDEC JESD22-A115C.					
	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.					
RoHS Compliance	This part is fully RoHS compliant						
Full Package Storage	Relative humidity (%)	20% ~70%					
	Temperature ( $^{\circ}C$ )	-10~35 $^{\circ}C$					



## 2. Mechanical Structure(mm)



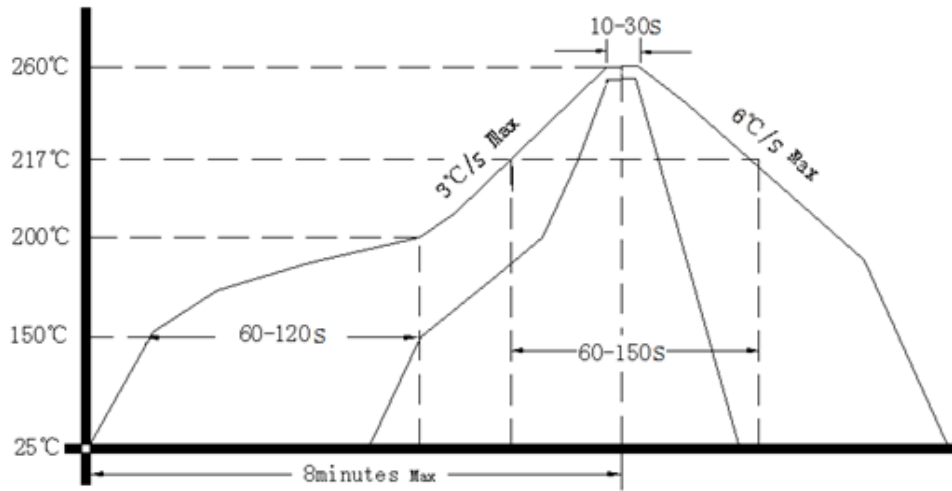
### Pin Connections

- 1 RF Output
- 2 Supply Voltage Input (Vs)
- 3 Ground
- 4 EFC
- 5 Ground

- Note1:** Tolerance  $\pm 0.2\text{mm}$  without mark
- Note2:** Referential weight 7g
- Note3:** The first two xx representative: week  
After two xx representative: year



### 3. Reflow Soldering Curve (RoHS)



### 4. Package(mm)

