

Travelling Merchant: _____

DATASHEET

Standard: **R55-E322-10.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2022.03.11			

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2022.03.11



1. Electrical Parameters

Table 1:

Item	Description	Min.	Typ.	Max.	Unit	Test Condition
1 PPS Output	Level	3.1	3.3	3.5	V	
	Pulse Width	1			μs	
	Rise/Fall Time			10	ns	
	Accuracy			50	ns	
	24 hours Holdover			1	μs	24 hours holdover after locking 24hours
RF Output	Nominal Frequency	10.00			MHz	
	Format	CMOS				
	Level		3.3		V	
	Frequency Accuracy	-0.05		+0.05	×10 ⁻⁹	At Shipment
	Frequency vs. Temperature	-0.05		+0.05	×10 ⁻⁹	T _A varies from -40°C to 80°C
	Short-term Stability (Allan Deviation)			0.05	×10 ⁻⁹	1s
				0.03	×10 ⁻⁹	10s
				0.01	×10 ⁻⁹	100s
	Daily Aging	-5		+5	×10 ⁻¹²	After 1 day of continuous operation.
	Warm up time			10	min	@25°C
	Frequency Adjustment Range	-20		+20	×10 ⁻⁹	
	Frequency Adjustment Resolution			1	×10 ⁻¹²	
	After lock PPS Reference Frequency error			1	×10 ⁻¹² /d	After lock 2 hours
	Phase Noise			-90	dBc/Hz	10Hz
			-120	100Hz		
			-140	1KHz		
			-145	10KHz		
Supply Voltage	Supply Voltage	+3.2	+3.3	+3.4	V	
	Warm Up			14	W	
	Steady			3	W	@25°C



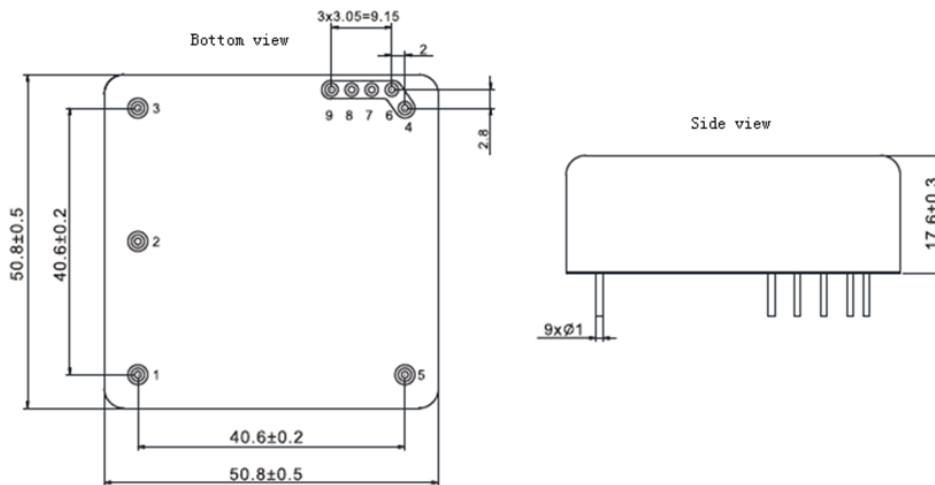
Item	Description	Min.	Typ.	Max.	Unit	Test Condition
Locked State	Locking	0		0.4	V	
	Unlocking	2.2		3.4	V	

2. Environmental Conditions

Table 2:

	Description	Test Condition
Environmental Conditions	Operable Temperature	-40°C~80°C
	Storage Temperature	-55°C~85°C
	Storage Humidity	30%~80%
	MTBF	≥100000 Hours
	Magnetic Field	≤2 Gauss
Full Package Storage	Relative humidity (%)	20%~70%
	Temperature (°C)	-10°C~35°C

3. Mechanical Structure (mm)



Pin Function

1	1PPS IN	1PPS IN
2	CASE	CASE
3	10MHz	10MHz Output
4	GND	GND
5	+5V	Vcc
6	TXD	UART Transmitter
7	RXD	UART Receiver
8	LOCK	Lock indicator, 3.3V:unlock,low:lock
9	1PPS_OUT	1PPS_OUT

Note1: Tolerance ± 0.30mm without mark

Note2: Referential weight 100g



4. Wave soldering curve (RoHS)

