

Travelling Merchant: _____

DATASHEET

Standard: **R45-E312-10.00MHz-B**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2022.04.12			

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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			3	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	$\times 10^{-9}$	At Shipment
	Frequency vs. Temperature	-1		+1	$\times 10^{-9}$	T _A varies from -40°C to 70°C
	Short-term Stability (Allan Deviation)			0.1	$\times 10^{-9}$	1s
				0.03	$\times 10^{-9}$	10s
				0.01	$\times 10^{-9}$	100s
	Daily Aging	-0.01		+0.01	$\times 10^{-9}$	After 1 day of continuous operation.
	Warm up time			5	min	@25°C
	Frequency Adjustment Range	-20		+20	$\times 10^{-9}$	
	Frequency Adjustment Resolution			1	$\times 10^{-12}$	
	After lock PPS Reference Frequency error			1	$\times 10^{-12}/d$	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			5	W	
	Steady			1.8	W	@25°C



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

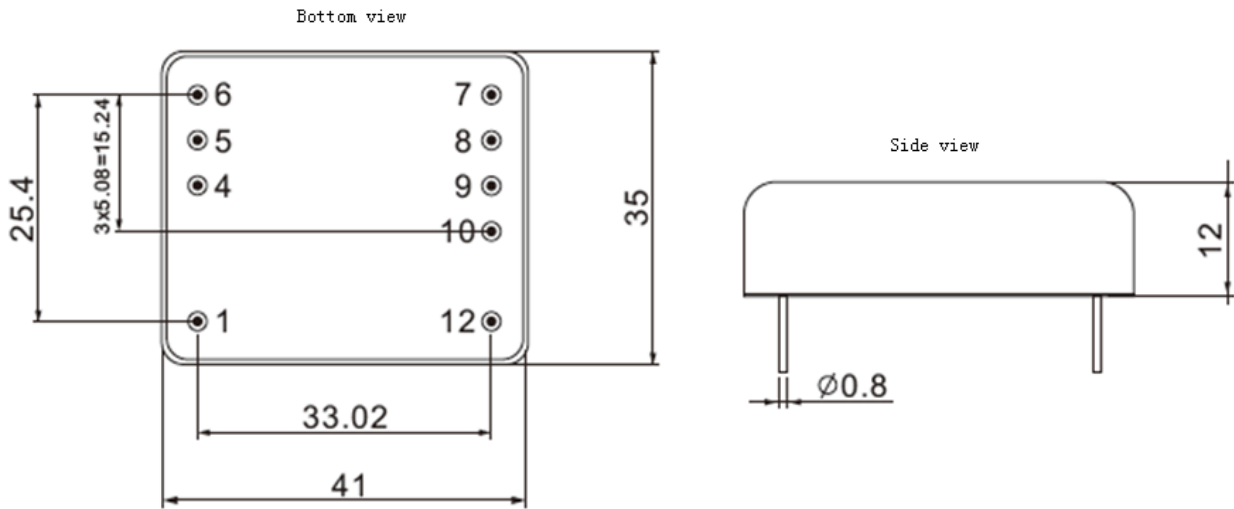
2. Environmental Conditions

Table 2:

	Description	Test Condition
Environmental Conditions	Operable Temperature	-40°C~70°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	EFC	Voltage control(0-2.5V)
4	LOCK	Lock indicator, 3.3V:unlock,low:lock
5	TXD	Usart sends, LVTTTL
6	RXD	Usart receiver, LVTTTL
7	+3.3V	Vcc
8	GND	Gnd
9	1PPS_IN	Reference 1PPS Input
10	1PPS_OUT	IPPS Output
12	10MHz	10MHz Output

Note1: Tolerance ± 0.30 mm without mark

Note2: Referential weight 40g

4. Wave soldering curve (RoHS)

