

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

# DATASHEET

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

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

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

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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			5	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 <sup>-9</sup>	At Shipment
	Frequency vs. Temperature	-0.5		+0.5	×10 <sup>-9</sup>	T <sub>A</sub> varies from -10°C to 70°C
	Short-term Stability (Allan Deviation)			0.3	×10 <sup>-9</sup>	1s
				0.1	×10 <sup>-9</sup>	10s
				0.03	×10 <sup>-9</sup>	100s
	Daily Aging	-0.03		+0.03	×10 <sup>-9</sup>	After 1 day of continuous operation.
	Warm up time			4	min	@25°C
	Frequency Adjustment Range	-20		+20	×10 <sup>-9</sup>	
	Frequency Adjustment Resolution			1	×10 <sup>-12</sup>	
	After lock PPS Reference Frequency error			1	×10 <sup>-12</sup> /d	After lock 2 hours
	Phase Noise			-80	dBc/Hz	10Hz
			-113	100Hz		
			-125	1KHz		
			-135	10KHz		
Supply Voltage	Supply Voltage	+3.2	+3.3	+3.4	V	
	Warm Up			200	mW	
	Steady			130	mW	@25°C



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

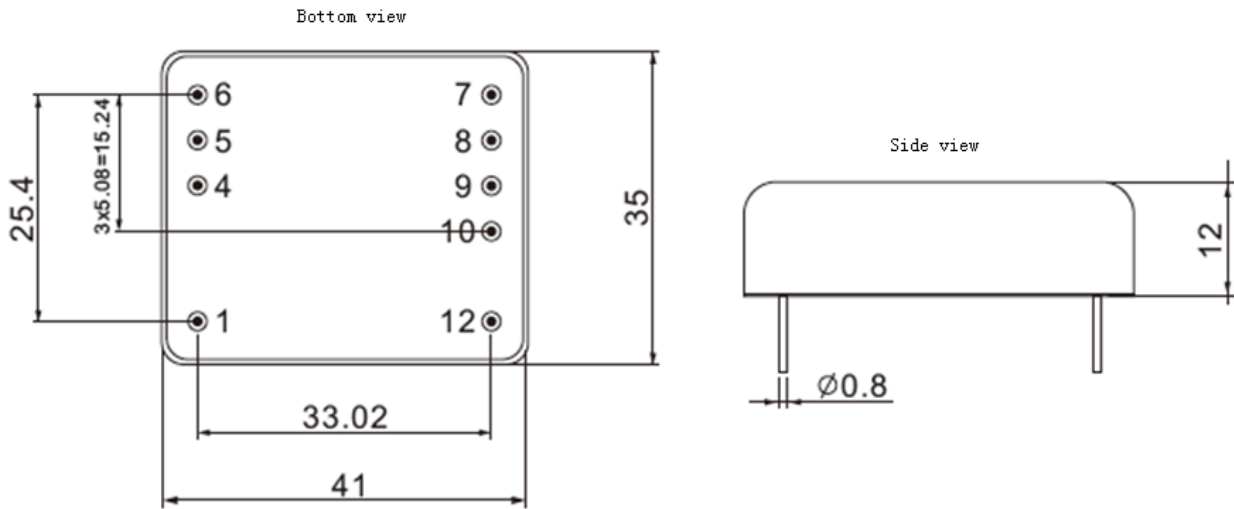
## 2. Environmental Conditions

Table 2:

	Description	Test Condition
Environmental Conditions	Operable Temperature	-10°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  $\pm 0.30$ mm without mark

Note2: Referential weight 40g

### 4. Wave soldering curve (RoHS)

