

Miniature Rubidium Oscillator

IPPS Discipline I/0 Sync □12V dc 8W □High Performance Reference, exhibits excellent drift per hour and per day



The E10-MRO is a compact cost effective Miniature Rubidium Oscillator Frequency Standard that maintains the high time and frequency accuracy demanded in applications such as telecoms, aviation, nautical and precision test and measurement.

Features

- RS232 Interface
- Low phase noise to -165dBc/Hz option
 Ageing: 5 x 10⁻¹⁰/year
- Stability 5 x 10⁻¹²/year
- 10MHz Output

Applications

- **Telecom Network synchronisation**
- **Frequency Calibration**
- Broadcast
- Cellular wireless Base stations

Benefits

- Simple integration into systemFits 1u case
- Low failure risk
- 2 year warranty

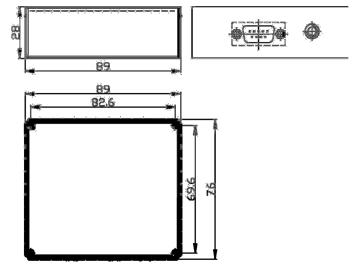
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E10-MRO

Specification

Output	10MHz	
Optional Outputs	Consult factory	
Accuracy	±5x10 ⁻¹¹ at shipment @25°C	
Aging	5x10 ⁻¹² /day	
	5x10 ⁻¹¹ /month	
Retrace)±3x10 ⁻¹¹	
Short Term Stability	1s 5x10 ⁻¹¹ 10s 1.6x10 ⁻¹¹	
	100s 5x10 ⁻¹²	
Phase Noise	dBc/Hz	
	10Hz -85dBc 100Hz -125dBc	
	1kHz -140dBc	
Input Power	8W at 12V@25°C, Max 2.5A	
Input Voltage	12 ±0.5Vdc	
Range		
Warm-up	5 minutes to lock @ 25°C	
Frequency Control	Internal trim range *2x10 ⁻⁹ (trimpot)	
	External trim range *2x10 ⁻⁹	
Temperature	(0V~5V)	
	Operating-20°C to +50°CTemperature2x10 ⁻¹⁰	
	Coefficient (ambient) (-20°C to 50°C)	
	Storage -55°C to +85°C	
MTBF	100,000 hours	
Connector	DB-9 Connector, SMA 89 × 76 × 28 (mm ³) (190cc)	
Size	0.25kg max	
Weight	2 years	
Warranty	This high performance version exhibits	
Low Noise Option E10-MRO LN	This high performance version exhibits lower phase noise and higher short term	
	stability. A 1PPS locking module is included	
	(see A6-1PPS). Customers may specify lower phase noise than above.	
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Dimensions



Connector Interface

J1: SMA, RF OUTPUT	J2: DB-9	
1: lock monitor(bit)	2&4: dc return/ground	
3: locking signal	5: ext C-field (0~5V)	
6, 8 & 9: NC (Used for RS232 option)		
7: +12V		