



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Sync'n Go® -- Portable Precision Frequency Reference



SYNC-10.00MHz.



**RoHS
Compliant**

FEATURES:

- Stand Alone 10.00MHz Portable Precision Frequency Reference - **World Wide Capability**
- Built-in Stratum-III stability, 10.00MHz Signal tuned into 50Ω's • Synchronization circuitry providing dynamic sync capability, enabling Calibration to a known source such as; a GPS Tracked 10.00MHz reference/10.00MHz Rubidium Source/10.00MHz OCXO based reference
- Integrated re-chargeable batteries to provide true stand-alone capability in the field
- Once sync'd; guaranteed ± 300 ppb stability over 0°C to 60°C
- Pocket Size - 3.50" * 1.50" * 1.00"; machined aluminum durable enclosure
- Accompanied with a Universal AC-DC Charger
- Continuously operable at full charge for 10-hours

APPLICATIONS:

- Ideally suited as an in-field Calibrated Precision 10.00MHz reference for trouble shooting or tuning hardware and Base Station related equipment
- Reference source for lab use
- Reference source to drive frequency counters and other timing related hardware or instruments
- Precision Portable reference for inspection of in-field wireless transmitters

STANDARD SPECIFICATIONS:

Parameter	Description	Value / Units
Input Reference Frequency for Sync	10.00	MHz
Output Reference Frequency	10.00	MHz
Operable Operating Range	0°C to +60°C	
Synchronization accuracy	± 5.00	ppb
Frequency Drift post sync (25°C \pm 10°C)	± 25.00	ppb Typical
Frequency Drift post sync (25°C \pm 20°C)	± 50.00	ppb Typical
Frequency Accuracy Over the operating Temperature Range	< ± 100 ± 300	ppb Typical; Post Sync ppb Maximum; Post Sync
Load Impedance	50	Ω
Charging Time	4.00	Hours maximum
Stand Alone operational time with full charge	10.00	Hours minimum
Phase Noise @ 10.00MHz Carrier		
100 Hz offset	-120	dBc/Hz typical
1,000 Hz offset	-140	dBc/Hz typical
10,000 Hz offset	-150	dBc/Hz typical
100,000 Hz offset	-155	dBc/Hz typical
1,000,000 Hz offset	-155	dBc/Hz typical
Output amplitude	6.0	dBm minimum
ALL Harmonics rms jitter	-30	dBc maximum
	< 0.50 ps	12kHz to 20MHz BW from the carrier

PACKAGE OUTLINE



ABRACON IS
ISO9001:2008
CERTIFIED



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 10.02.11**
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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➤ OPERATIONAL MANUAL

Charge:

- 1) Plug 5V charger (or PC or any other USB power source) into a mini-USB port
- 2) "Bat" LED may turn yellow for a moment to signal that an internal battery is evaluated
- 3) "Bat" LED will flash green to signal that the battery is being charged
- 4) "Bat" LED will display solid green when the battery is fully charged

Synchronization:

- 1) Connect a 10MHz standard to the "Ref In" input
- 2) Press "Synchronize"
- 3) "Lock" LED will turn-on yellow to signal that "Sync N Go" is evaluating the standard
- 4) If the reference is stable, the "Lock" LED will turn green to signal that the signal is locked and that the reference information is stored
- 5) If the reference is not found or it is outside a frequency range or it is not stable, the "Lock" LED will flash red
- 6) If that occurs, the "Lock" LED turns-off and the "Sync N Go" goes into a sleep mode

Output ON (if battery charged):

- 1) Press "Power"
- 2) "ON" LED will turn green
- 3) "Sync N Go" will output a continuous RF signal on the "Out" connector

Output ON (if battery low):

- 1) Press "Power"
- 2) "ON" LED will turn green.
- 3) "Sync N Go" will output a continuous RF signal on the "Out" connector. At the same time, "Bat" LED will slowly flash red.

Output ON (if battery is discharged):

- 1) Press "Power"
- 2) "Bat" LED will rapidly flash red for few seconds and "Sync N Go" will immediately go back to sleep

Output OFF:

- 1) Press "Power"
- 2) "ON" LED turns off and the "Sync N Go" goes into a sleep mode

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com