



Agrandir

FE-5680A Rubidium Atomic Frequency Standard Oscillator Transceivers 10Mhz Out

Free:1x 9 Pin Serial Ports, 1x OXO VECTRON 63.8976Mhz

Achat Immédiat

Etat de l'objet : **Occasion**

Quantité : Plus de 10 disponibles / 117 vente(s) réussie(s)

Prix : **39,99 USD**
Environ 31,20 EUR

Achat immédiat

Offre directe :

Faire une offre

Livraison : **9,99 USD** (environ 7,79 EUR) - Economy Int'l Shipping | [Afficher tous les détails](#)
Le délai de livraison estimé varie pour les objets envoyés depuis l'étranger.
Lieu : **Canton, Chine**
Livraison : **Monde entier** [Voir les exclusions](#)

Palements : **PayPal** | [Afficher les informations de paiement](#)

Payez avec PayPal et votre achat est couvert à 100%. [Voir les conditions](#)

Retours : **Retours acceptés** | [Voir les détails](#)

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Vendeur Top Fia nichegeek (292)

100% Evaluations positives

Reçoit constamment d'excellentes évaluations part des acheteurs

Envoie les objets rapidement

Propose en permanence un service de qualité

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Description

Livraison et paiements

Partager :

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Le vendeur assume l'entière responsabilité de cette annonce.

Numéro de l'objet : 270851051022

Dernière mise à jour : 15 janv. 2012 02:56:34 Paris [Afficher toutes les modifications](#)

Caractéristiques de l'objet

Etat: Occasion: Objet ayant été utilisé. Objet présentant quelques marques d'usure superficielle, entièrement ... [En savoir plus](#)

Niche-Geek

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Livraison et expédition

Lieu où se trouve l'objet : Canton, China

Livraison vers : Monde entier

Lieux exclus : APO/FPO, Afrique, Moyen-Orient, Russie, Albanie, Autriche, Biélorussie, Belgique, Bulgarie, République tchèque, Estonie, Grèce, Hongrie, Islande, Irlande (Eire), Lettonie, Lituanie, Luxembourg, Malte, Moldavie, Portugal, Roumanie, Serbie, Slovaquie, Slovénie, Suède, Brunei, Cambodge, Hong Kong, Indonésie, Laos, Macao, Malaisie, Philippines, Taiwan, Thaïlande, Vietnam, Afghanistan, Arménie, République d'Azerbaïdjan, Bangladesh, Bhoutan, Chine, Géorgie, Inde, Kazakhstan, Corée du Sud, Kirgizistan, Maldives (îles), Mongolie, Népal, Pakistan, Sri Lanka, Tadjikistan, Turkménistan, Ouzbékistan, PO Box

Quantité :

Changer de pays :

France métropolitaine

Afficher les frais

Livraison et expédition	Chaque objet supplémentaire	Vers	Service	Délai de livraison estimé*
9,99 USD	4,99 USD	France métropolitaine	Economy Int'l Shipping	Varie pour les objets envoyés depuis l'étranger Le vendeur envoie l'objet sous 2 jours après réception du paiement .

*Le **délai de livraison estimé** est calculé en fonction du délai d'expédition spécifié par le vendeur, du service de livraison sélectionné et du temps nécessaire pour que **le paiement soit versé sur le compte du vendeur**. Les vendeurs ne sont pas responsables des délais de livraison. Les délais de livraison peuvent varier, notamment pendant les périodes de pointe.

Délai d'expédition nationale	Assurance sur la livraison
Envoyé sous 2 jours ouvrables après la réception du paiement .	Non disponible

- Industry & Scientific
 - Oscilloscope
 - Development Board & Module
 - Electronic Components
 - Downloader
 - Emulator
 - Oscillator
 - Module
- Garden & Tools
 - Multimeter
- Other

FE-5680A Rubidium Atomic Frequency Standard Oscillator

Features :

Extremely low silhouette:	less than 1.0 inch
Stability over temperature:	5x10-11
Frequency:	1 Hz to 10MHz *
Fast Warm-up:	<5 min.
Stability:	To 5x10-12/ to 2x10-10/year





The Fe-5680A Rb frequency standard is 3.5x5.1 inches, a design suited to PC board slot mounted applications.

A simplified functional block diagram is shown in Figure 3.

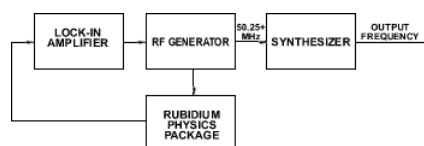


Figure 3

Many commercial applications for precision frequency standards demand performance over an extended temperature range. Often frequency variation with temperature is the performance-limiting feature of these devices for CDMA holdover applications. The two products described in this paper have both been designed to operate over extended temperature ranges while guaranteeing a frequency variation of less than $1E-10$. The FE-5680A operates at any temperature between -10 and +60 deg. C, a temperature range required for indoor rack-mounted telecommunication hardware with

hardware.

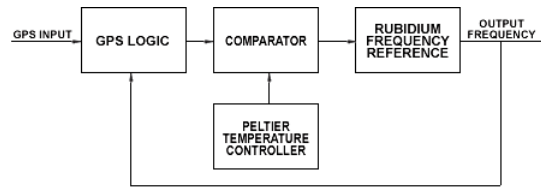


Figure 4
Block Diagram, FE-5652A

FREQUENCY vs. TEMPERATURE

Frequency variations due to ambient temperature variations can easily swamp other sources of instability for a Rb frequency standard operating in a real life environment. Therefore, special attention was given to frequency stability vs. temperature in these designs. Figure 5 and 5 show typical performance data for FE-5680A and FE-5652A. Rb standards over the ambient temperature range. In addition to the information provided by these plots, it is useful to understand the distribution of performance associated with a production lot of these devices. Table 2 provides this information.

Table 2 Frequency vs. Temperature Statistics, FE-5680A			
Lot ID	No. of Units	Mean Δf (E ⁻⁶)	Std. Dev. (E ⁻⁶)
43	34	0.00	0.304
44	36	-0.09	0.416

The information in this table shows that the mean total frequency deviation over temperature is very small. What this really means is that the frequency deviation is equally likely to be positive or negative. The standard deviation values give an indication of the range of deviations to be expected amongst production devices.

FREQUENCY STABILITY

Allan deviation stability data for the FE 5680A Rb standards are shown in Figure 7. The measurements used to derive the Allan deviation were all made at 25 deg. C. It is of interest to note that the result for SN 4005 is significantly improved by comparing it to another Rb standard (SN 5359) rather than a Cs reference. This indicates that the result is limited by the stability of the Cs reference.

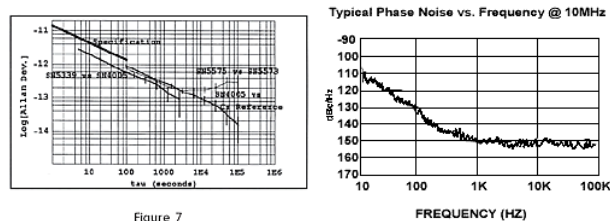


Figure 7
Allan Variance for several units

Package List:

- 1x USED FE-5680A
- 1x NEW 9 Pin Serial Port
- 1x NEW OCXO VECTRON 63.8976Mhz

Instruction:

- Pin 1 is Main supply +15 V, drawing about 1.3A reducing to 0.8 A when warmed up.
- Pin 2 is Chassis Ground and power supply return.
- Pin 3 is a TTL level logic output: High when out of lock, Low when locked.
- Pin 4 needs +5 V at about 80 mA to produce any output at all with return to pin 2.
- Pin 6 has 1 pps.
- Pin 7 is 10 MHz output, with 5 the return for that and maybe any data on
- Pin 8 and 9, RS232 is not yet checked.

[Download PDF Datasheet](#)

Payment Policy



- We accept Paypal payment only which provides full-scale buyer protection policy up to \$500.
- All major credit cards are accepted through our secure payment processor PayPal.
- Payment must be received within 7 business days of auction closing.
- We ship to paypal verified address only.

Shipping Policy

- Your purchase will be dispatched within 2 business days of payment cleared. Unlike most of other HK/CN sellers, every single parcel from us will have a tracking number for our customer's peace of mind.
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- We also provide Express Shipping Service (UPS/DHL/FEDEX/EMS) options if you need it urgently. Please select the shipping method while checkout
- Delivery time depends on destination and other factors, it may takes up to 20 business days. If you don't receive the item after 30 days, please contact us, we'll investigate and solve the delivery problem.

Returns Policy

- If you are not satisfied when you receive your item, please return it within 14 days for a replacement or money back. Please contact us for return address before you send it back.
- If item defective in 3 months, we will send you a replacement without extra charge, or offer refund upon faulty received.
- If item defective after 3 months, you are still welcomed to send it back to us for exchange. Shipping fee may be inaccurred.

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- However, we are not responsible for custom duty or import tax if unfortunately generated.
- To make the transaction easier, we will leave Positive Feedback immediately payment cleared. Please contact us if you are not satisfied. Please trust us any problem could be amicably resolved through communication.

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