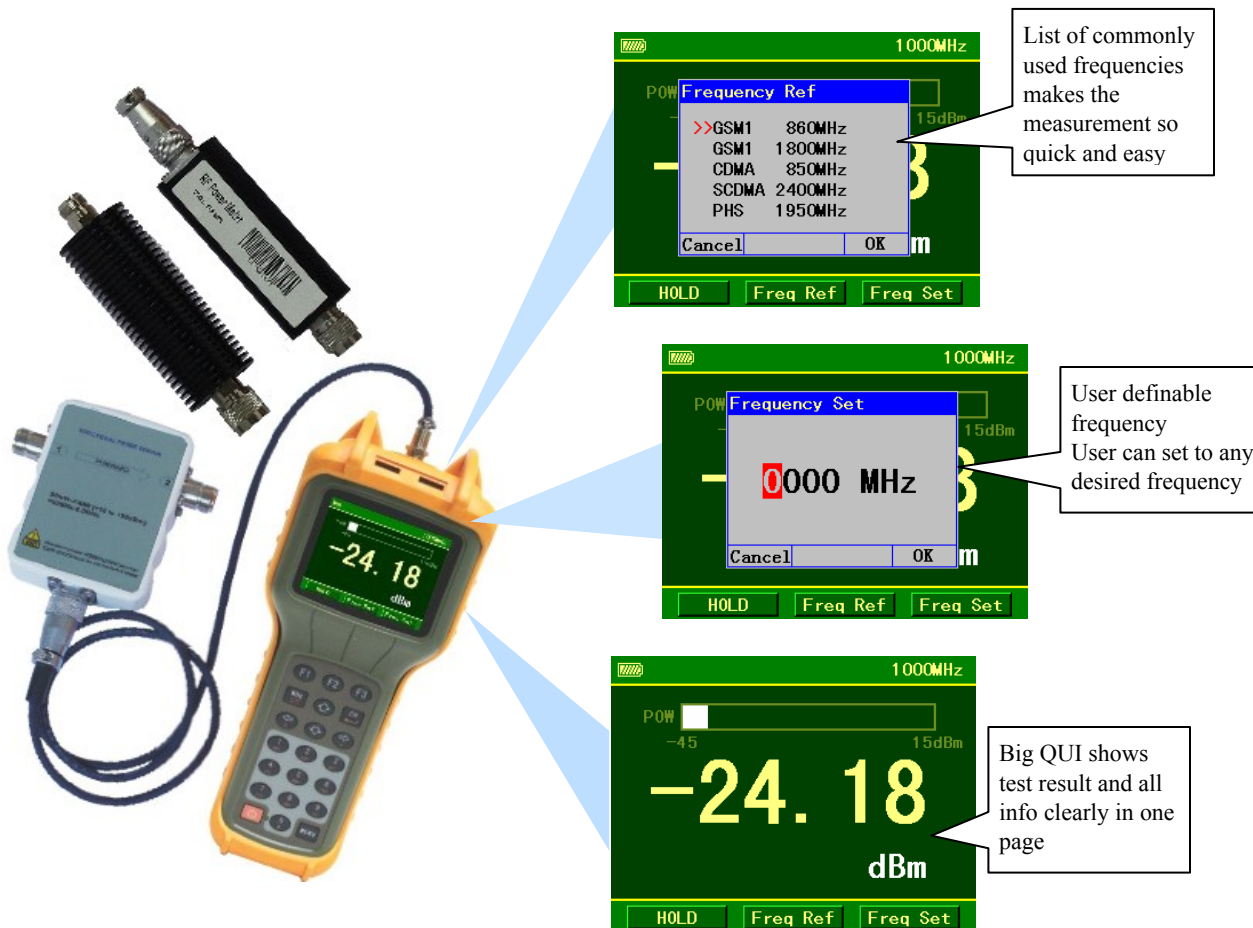


FRF-2000/3000

FRF-2000 and FRF-3000 series are radio-frequency power meters specially designed for measuring complex waveforms of worldwide mobile digital signals such as GSM, CDMA, TDMA, PHS and so on. Its up-to-3GHz frequency range makes it suitable for wide applications using high radio frequencies in wireless communication systems such as 3G. RFR-2000/3000 series are lightweight and rugged small handheld tester; the TFT LCD color display ensures clear visibility in direct sunlight and dark location; a list of commonly used frequencies is stored in the memory – a user can simply choose from the list – so convenient; the simple and easy-to-operate menu is ready for the first-time user – no need for training. In the through mode, it can measure signals up to 200W. With above features and very attractive price, the FRF series truly redefine superior value for today’s RF power measurement. Despite its small package, the FRF-2000/3000 series provide outstanding accuracy on the bench, replacing much larger and more expensive instrumentation.



Key Features

- Small, lightweight and rugged - truly portable
- User-friendly GUI – quick start, simple setup and usage
- TFT LCD color display ensures clear visibility in direct sunlight and dark locations.
- Test result and all the information are shown in one page.
- Support measurement of both absorb and pass-through types.
- Wide frequency and dynamic range with high accuracy up to ± 0.3 dB
- Quick and easy testing with preprogrammed frequencies commonly used in worldwide mobile communications.
- User can define any desired frequency up to 3000MHz with resolution of 1MHz.
- The built-in memory memorizes the last setup.
- Storage capacity up to 1000 result and data upload to PC.
- Rechargeable battery pack for long hour operation with low battery indicator.
- Support auto shutoff

Specifications

Probe Type	External
Connector Type	Type N male RF connector
Input Impedance	50 Ohm
Input Channel	Single Channel
Dynamic Range	>40dB
Measurement Mode	Manual, Auto (Recommend)
Frequency Range	2-3000MHz
Amplitude Range	-45dBm ~ +5dBm (w/o attenuator) -15dBm ~ +35dBm (w/ 30dB attenuator) -5dBm ~ +45dBm (w/ 40dB attenuator) +5dBm ~ +55dBm (w/ 50dB attenuator)
Resolution	0.01dB
Measurement Accuracy	± 0.3dB
Input Signal	Preprogrammed frequencies: <ul style="list-style-type: none"> • 860MHz (GSM1) • 1800MHz (GSM2) • 850MHz (CDMA) • 2400MHz (SCDMA) • 1950MHz (PHS) • Other frequencies can be preset upon customer request • User definable frequency with resolution of 1MHz

Pass Through Mode

Connector Type	Type N male RF connector
Input Impedance	50 Ohm
Frequency Range	800 ~ 2500MHz
Amplitude Range	13dBm ~ 53dBm (20mW ~ 200W)
Standing-Wave Ratio in Ref	< 1.1 @50Ohm
Insertion Loss	< 0.4dB
Probe Standing-Wave	< 1.2

General

Display	TFT LCD (320*240)
Interface	RS232
Data Storage	1000 results
Battery	7.2V lithium battery
Battery Life	Average >24 hours , Continuous operation >12 hours
Power Adapter	100-240V/0.8A 50-60Hz
Battery Charging Time	about 5 hours
Dimension (mm)	240 (L) x 100(W) x 50(H)
Weight	0.7 kilograms
Storage Temperature	-10 to +40°C
Storage Environment	put in dry condition

Note: Specifications subject to change without notice

Standard Package

Main Unit	1
Probe	1
Attenuator excluding FRF-3000TH	1
Test Cable	1
Soft Carrying Case	1
Operating Manual	1
Rechargeable Battery Pack	1
AC/DC Charger	1

Optional Accessories

FRF-00-00-30	30dB Attenuator (absorb type only)
FRF-00-00-40	40dB Attenuator (absorb type only)
FRF-00-00-50	50dB Attenuator (absorb type only)
FRF-00-00-xx	xxdB Attenuator (absorb type only)
FRF-00-20-00	Probe - Absorb Type (2000MHz)
FRF-00-30-00	Probe - Absorb Type (3000MHz)
FRF-00-TH-00	Probe - Pass-Through Type

Product Models

Model Number	FRF-2000	FRF-3000	FRF-3000TH
Frequency Range	2 ~ 2000MHz	2 ~ 3000MHz	800 ~ 3000MHz
RF Detection Type	Absorb Type	Absorb Type	Pass Through Type with built-in attenuator Make power and standing wave measurement

Ordering Information

FRF-AA-BB-CC

AA – Main Unit	BB – Probe Type	CC – Attenuator
00 = No main unit Main = Main Unit	00 = No Probe 20 = Absorb type (2000MHz) 30 = Absorb type (3000MHz) TH = Pass Through Type	00 = No Attenuator or Pass Through Type 30 = 30dB 40 = 40dB 50 = 50dB Customized value (check with agent for availability)

Example: FRF-Main-TH-00 (FRF-3000TH, pass through type).

FRF-Main-30-40 (FRF-3000 absorb type with 40dB attenuator)

FRF-00-00-30 (30dB Attenuator only)