

 soundmaster®



**DEUTSCH  
ENGLISH  
FRANÇAIS  
NEDERLANDS  
ITALIANO**

**NORSK  
SVENSKA  
DANSK  
ČEŠTINA**

**Hersteller**

Wörlein GmbH  
Gewerbestr. 12  
D 90556 Cadolzburg  
GERMANY

Tel.: +49 9103/71670  
Fax.: +49 9103/716712  
Email: [info@woerlein.com](mailto:info@woerlein.com)  
Web: [www.woerlein.com](http://www.woerlein.com)



**DAB450**

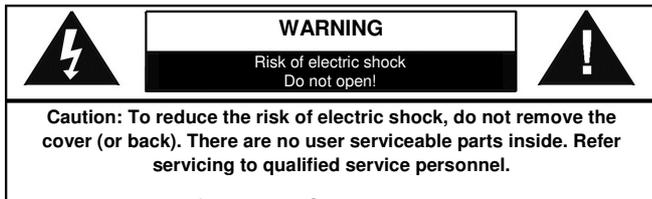
## ENVIRONMENTAL PROTECTION



Do not dispose of this product with the normal household waste at the end of its life cycle. Return it to a collection point for the recycling of electrical and electronic devices. This is indicated by the symbol on the product, user manual or packaging.

The materials are reusable according to their markings. By reusing, recycling or other forms of utilization of old devices you make an important contribution to the protection of our environment.

Please contact your local authorities for details about collection points.



This symbol indicates the presence of dangerous voltage inside the enclosure, sufficient enough to cause electric shock.



This symbol indicates the presence of important operating and maintenance instructions for the device.

### **Safety, Environmental and Setup Instructions**

- Use the device in dry indoor environments only.
- Protect the device from humidity.
- Do not open the device. **RISK OF ELECTRIC SHOCK!** Refer opening and servicing to qualified personnel.
- Connect this device to a properly installed and earthed wall outlet only. Make sure the mains voltage corresponds with the specifications on the rating plate.
- Make sure the mains cable stays dry during operation. Do not pinch or damage the mains cable in any way.
- A damaged mains cable or plug must immediately be replaced by an authorized service center.
- In case of lightning, immediately disconnect the device from the mains supply.
- Children should be supervised by parents when using the device.
- Clean the device with a dry cloth only.  
Do NOT use CLEANING AGENTS or ABRASIVE CLOTHS!
- Do not expose the device to direct sunlight or other heat sources.
- Install the device at a location with sufficient ventilation in order to prevent heat accumulation.
- Do not cover the ventilation openings!
- Install the device at a safe and vibration-free location.
- Install the device as far away as possible from computers and microwave units; otherwise radio reception may be disturbed.
- Do not open or repair the enclosure. It is not safe to do so and will void your warranty. Repairs only by authorized service/ customer center.
- Only use mercury and cadmium-free batteries.
- Used batteries are hazardous waste and NOT to be disposed of with the household waste!!!  
Return the batteries to your dealer or to collection points in your community.
- Keep batteries away from children. Children might swallow batteries.  
Contact a physician immediately if a battery was swallowed.
- Check your batteries regularly to avoid battery leakage.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- CAUTION: Danger of explosion if battery is incorrectly replaced  
Replace only with the same or equivalent type



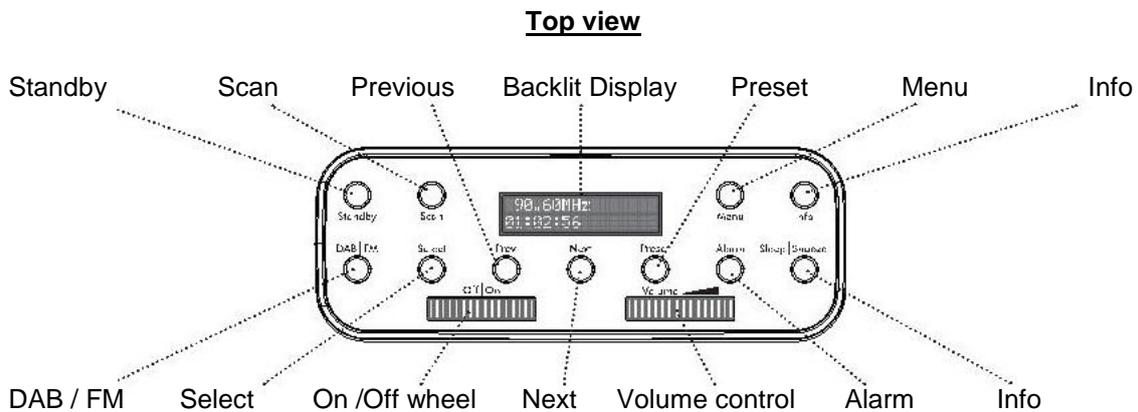
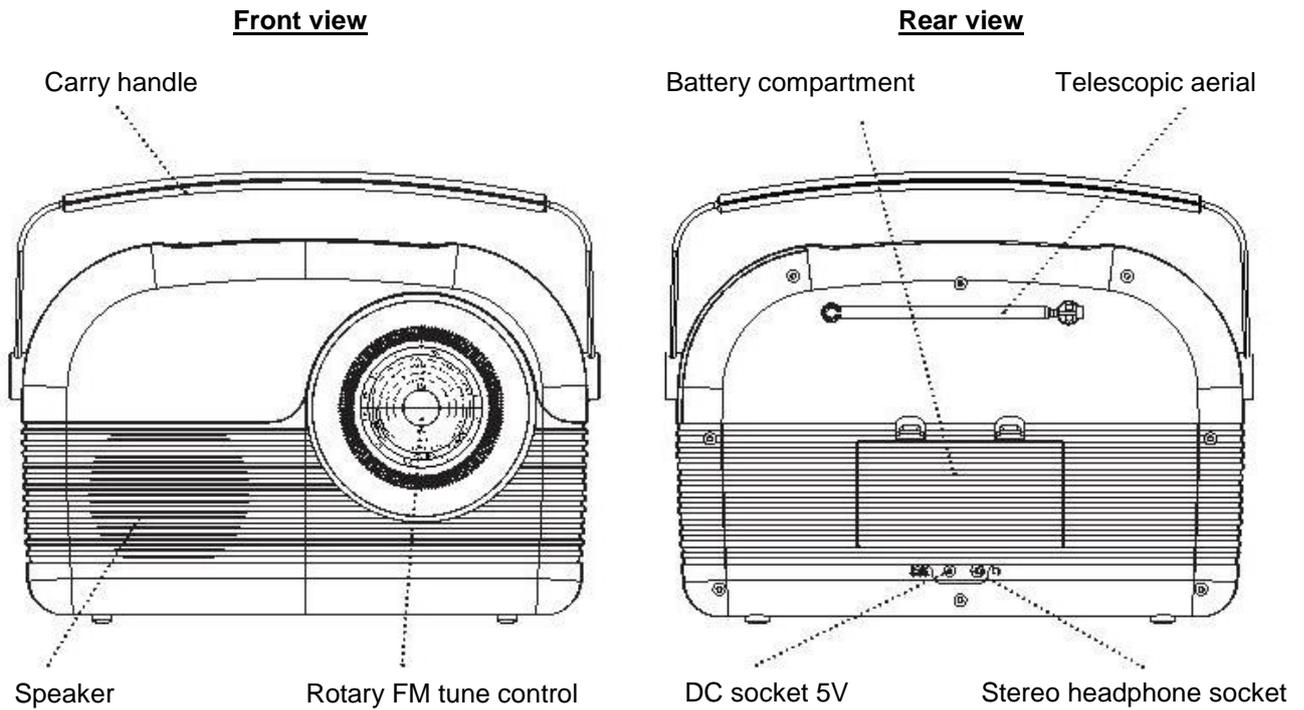
Used batteries are hazardous waste and NOT to be disposed of with the household waste! As a consumer you are legally obligated to return all batteries for environmentally responsible recycling - no matter whether or not the batteries contain harmful substances \*).

Return batteries free of charge to public collection points in your community or to shops selling batteries of the respective kind.

Only return fully discharged batteries.

\*) marked Cd = cadmium, Hg = mercury, Pb = lead

LOCATIONS OF CONTROLS



CONNECT TO POWER

**Setting up**

1. Connect the mains power lead into the socket on the back of the radio and fully extend the radio aerial in a vertical position to obtain the maximum signal strength.
2. Plug the power adaptor into the mains power wall socket.
3. Rotate 'On/Off' wheel on the top of the radio to turn on the radio. Press and release the 'Standby' button on the top of the radio. Your radio will switch on and begin an automatic scan for DAB radio stations. A progress bar will show the progress of the scan and the number of stations found during the scan will also be displayed. When the scan is complete your radio will select the first available station and begin to play.

**Note:** The DAB radio station list is stored in the memory and so the next time you switch your radio on, the station search does not take place.

## BATTERY OPERATION

1. Inserting the batteries (optional). Before installing the batteries (not included) please ensure that the radio is switched off (rotate '**On/Off**' wheel on the top of the radio.) and is unplugged from the mains power supply.
2. On the back of the Radio, push down the one tab to release and remove the battery compartment cover.
3. Insert 4 x LR14 batteries, making sure to note the '+' and '-' markings and position the batteries the correct way around.
4. Replace the battery cover, making sure it 'clicks' shut.
5. For battery operation, please switch off the mains adaptor and remove the mains power plug from the back of the Radio.
6. When the unit is not in use, pls. switch the unit off with rotate '**On/Off**' wheel. Because display is in use and battery consumption is in existence!
  - Only use recommended batteries or those of the same equivalent type.
  - Do not mix old and new batteries or batteries of different types.
  - Batteries are to be inserted with the correct polarity.
  - The supply terminals are not to be short-circuited.
  - Remove the batteries from the Radio if they will not be used for an extended period of time.
  - Do not attempt to recharge non-rechargeable batteries.
  - Dispose of old batteries carefully.
  - Never throw batteries in a fire or attempt to open the outer casing.
  - Batteries are harmful if swallowed, so keep away from young children.
  - CAUTION: Danger of explosion if batteries are incorrectly replaced. Replace only with the same or equivalent type.

### **Standby**

Rotate '**On/Off**' wheel on the top of the radio to turn on the radio, it will go to standby mode followed by the time and date.

### **Switch on**

Press and release the '**Standby**' button on the top of the radio.

### **Switch off**

Press and release the '**Standby**' button for standby. Rotate '**On/Off**' wheel on the top of the radio to turn off the radio. To completely switch off the radio and the display, switch off the mains power at the wall socket, remove the power plug from the back of the radio. Remove the batteries, if fitted.

### **Changing modes**

Your radio has 2 modes available, these are DAB and FM.

Press and release the '**DAB/FM**' button on the top of the radio each time you wish to change the mode.

### **Adjusting the volume**

Rotate the "**Volume**" wheel on the top of the radio to increase or decrease the volume.

## DAB RADIO

Press the “**Standby**” button to turn to DAB mode.

If you were listening to a DAB station when you switched the radio off then this station will be automatically selected when you switch the radio back on.

### Changing DAB stations

1. If you are not already in DAB mode, press and release the ‘**DAB/FM**’ button on the top of your radio until ‘*DAB*’ is displayed.
2. Press the “**Prev**” or “**Next**” button on the top of the radio to go up or down of the station. “**Prev**” button is for down station, and “**Next**” button is for up station.
3. Press the ‘**Select**’ button, the radio will instantly tune to that station and begin to play

### Scanning for DAB stations

1. If you are not already in DAB mode, press and release the ‘**DAB/FM**’ button on the top of your radio until ‘*DAB*’ is displayed.
2. Press and release the ‘**Scan**’ button on the top of your radio to carry out a scan. ‘*Searching...*’ will be displayed and a progress bar will show the progress of the scan and the number of stations found during the scan will also be displayed.
3. You can also press the ‘**Menu**’ button and press the “**Prev**” or “**Next**” button on the top of the radio till it shows ‘*Full Scan*’ and press “**Select**” button to run a full scan. The display will change to ‘*Searching...*’. A progress bar will show the progress of the scan and the number of stations found during the scan will also be displayed.

### Prune Function

You can remove the DAB stations in the station list that cannot be received in your area. These are listed with a ‘Prune?’ prefix.

1. Press the ‘**Menu**’ button and use the “**Prev**” or “**Next**” button to scroll to ‘*Prune?*’. Press “**Select**” button to select.
2. ‘*Prune ?<No> Yes*’ is displayed. Use the “**Prev**” or “**Next**” button to scroll to ‘*Yes*’. Press the ‘**Select**’ button to select and prune the station list. Stations with a ‘Prune?’ prefix will now no longer be displayed. Press ‘**Menu**’ to turn back to DAB stations.

### Storing a DAB station preset

Your radio can store up to 10 DAB stations in its preset memories for instant access to your favorite stations.

1. Tune your radio to the station that you wish to preset.
2. Press and hold the ‘**Preset**’ button on the top of your radio. ‘*Preset Store <1: Empty>*’ is displayed.
3. Use the “**Prev**” or “**Next**” button to move to preset location that you would like to store the radio station to (1-10).
4. Press and release the ‘**Select**’ button to confirm your selection. The display will confirm ‘*Preset X stored*’, where ‘*X*’ is the number of the preset (1-10).

**Note:** If there is already an existing DAB station stored under a preset, it will be overwritten when you store the new station.

### Tune to a DAB preset station

In DAB mode:

1. Fast press the ‘**Preset**’ button. ‘*Preset Recall <1: >*’ is displayed and the name or frequency of the station stored there, or ‘*Empty*’ if no Previous station has been stored.
2. Press the “**Prev**” or “**Next**” button to scroll to the Preset location and station that you would like to listen to (1 - 10).
3. Press the ‘**Select**’ button, the radio will instantly tune to that station and begin to play.

**Note:** If no DAB station has been stored under the preset button, ‘*Preset Empty*’ will be displayed, then the radio will revert to the Previously selected radio station after a few seconds.

### **DAB display information**

When listening to a DAB station you can change the information that will appear on the second line of the display. There are several different types of information that are sent by the broadcaster.

Press the **'Info'** button on the top of the radio to cycle through the different information options.

Dynamic Label Segment (DLS) - this is scrolling text information supplied by the broadcaster.

Signal Strength - An empty will appear on the second line of the display to indicate the minimum signal strength for acceptable listening. The row of solid rectangles indicates the actual signal strength that you are receiving. The stronger the signal, the further to the right the row of solid rectangles will be.

Program Type (PTY) - such as 'Rock', 'Pop', 'Talk' or 'News'

Multiplex Name - displays the broadcasting area and collection of radio stations on this frequency e.g.: *'DR DEUTSCHLAND'*.

Channel and Frequency - e.g.: *12B 225.648 MHz*

Signal error - This is displayed as a number between 0-99.

It would not be possible to satisfactorily listen to a radio station with a signal error rate of 30 or above. Try adjusting the aerial or relocating your radio to improve reception.

Data rate information - The data rate at which the signal is being transmitted.

Time and date - supplied by the broadcaster.

### **Dynamic range control**

1. In DAB mode, press the **"Menu"** button, press the **"Prev"** or **"Next"** button to select *"DRC Value"*.
2. There are 3 levels of compression:
  - DRC Off - no compression. This is the default setting.
  - DRC Low - medium compression
  - DRC High – maximum compression
3. The current DRC setting will display when you turn into DRC Value.
4. Use **"Prev"** or **"Next"** button to scroll through the 3 compression level options available and press **"Select"** knob to 'select'.
5. Press **'Menu'** to turn back to DAB stations.

## FM RADIO

If you were listening to an FM station when you switched the radio off then this station will be automatically selected when you switch the radio back on.

### **Tuning to an FM station**

1. If you are not already in FM mode, Press and release the **'DAB/FM'** button to go to FM mode.
2. Rotate dial wheel in the front of your radio to choose the frequency band. It will stop and begin to play the station if there is station.

**Note:** If reception is still poor adjust the position of the aerial or try moving the radio to another location.

FM Mode can not preset FM station and scan FM station.

## HEADPHONES

You can connect headphones with a 3.5mm plug (not included) to your Radio. The stereo headphone socket can be found on the back of the Radio at the bottom. When you have headphones connected the radio speaker is switched off and all sound is via the headphones.

Note: Always keep the volume within reasonable limits.

## USING THE ALARM

### Setting the alarm (in DAB mode only)

There are 2 alarm settings available.

1. Press and release the '**Alarm**' button, '*Alarm 1 Setup*' is displayed. Press and release the '**Select**' button.  
**Note:** Press and release the '**Alarm**' button twice to set Alarm 2.
2. '*Alarm 1 Wizard, On time*' is displayed and the hour digits for the alarm will flash.
3. Use the '**Prev**' and '**Next**' buttons to display the hour for the alarm. Press and release the '**Select**' button.
4. The minute digits for the alarm will flash. Use the '**Prev**' and '**Next**' buttons to display the minutes for the alarm. Press and release the '**Select**' button.
5. Use the '**Prev**' and '**Next**' buttons to display the duration for the alarm. You can choose from 15, 30, 45, 60 and 90 minutes. Press and release the '**Select**' button.
6. Use the '**Prev**' and '**Next**' buttons to display the sound source for the alarm. You can choose from Buzzer or DAB. Press and release the '**Select**' button.
7. Use the '**Prev**' and '**Next**' buttons to display the frequency for the alarm. You can choose from Daily, Once, Weekends or Weekdays. Press and release the '**Select**' button.  
**Note:** If you choose Once, you will be prompted to set the date for the alarm.
8. Use the '**Prev**' and '**Next**' buttons to display the volume setting for the alarm. Press and release the '**Select**' button.  
**Note:** Remember to set the alarm radio volume to one that will wake you. The alarm volume will increase progressively until it reaches the alarm volume you have set.
9. '*Alarm 1 Wizard*' is displayed again, together with '*Alarm On (or Off)*'. Use the '**Prev**' and '**Next**' buttons to display '**Alarm On**' or '**Off**'. Press and release the '**Select**' button. '*Alarm Saved*' is displayed.
10. In Standby mode a bell symbol in the top right of the display, together with the digit '1' or '2' will confirm when an alarm has been set.

**Note:** If the time is not set or has failed to update from the radio signal, 'Time is not set' will be displayed when you try to set the alarm. The radio will then prompt you to set the time. An alarm can only be set after the time has been set.

**When the unit is set to "Off" with the rotate 'On/Off' wheel, there is no alarm function!**

### Stop the alarm

When the alarm sounds press and release the '**Standby**' button. Alternatively, you can press and release the '**Snooze**' button to 'Snooze' (see Snooze function below).

**Note:** If you press the 'Standby' button to stop the alarm, the alarm symbol will remain in the display and the alarm will sound again at the same time the next day unless it was set for 'Once' only.

### Snooze

When the alarm sounds press and release the 'Snooze' button to Snooze. The Snooze time countdown will be displayed and the alarm will sound again in approximately 5 minutes. To extend the snooze interval from the default 5 minutes, press the "**Sleep / Snooze**" button repeatedly after the alarm has been activated to scroll through the options available (5, 10, and 15 minutes).

### Turn off the alarm

In Standby mode:

Briefly press and release the '**Alarm**' button repeatedly to turn Alarm 1 and Alarm 2 'On' or 'Off'. Press and release the '**Select**' button. 'Alarm Saved' is displayed.

Alternatively, follow the steps for 'Setting an Alarm' and select 'Off' in step 9.

## SLEEP TIMER

You can set your Radio to turn off automatically using the sleep timer. You can choose from 15, 30, 45, 60 and 90 minutes or Sleep off.

With the Radio switched on and in DAB mode:

1. Press and release the **'Sleep'** button on the top of the Radio. *'Set sleep time, Sleep off'* is displayed.
2. Repeatedly press and release the **'Sleep'** button to cycle through the available options of 15, 30, 45, 60 and 90 minutes or Sleep off.
3. When the sleep time that you would like is displayed. Press and release the **'Select'** button. The sleep time minutes that you have selected will be displayed on the top line of the display and will countdown until the radio switches off.

### Cancel the Sleep timer

1. Press and release the **'Sleep'** button on the top of the Radio until *'Sleep off'* is displayed.
2. Press and release the **'Select'** button.

## MENU SYSTEM SETTINGS

**Note:** Your radio must be switched on and in DAB mode when you change the system settings.

### Manually set the date and time

The first time you listen to DAB radio, the time and date of your product will be synchronized automatically to that broadcast by the DAB service in 24 hour mode; which is in line with daylight saving, but if you do wish to set the time manually, please follow the steps below.

1. Press and release the **'Menu'** button.
2. Use the **'Prev'** and **'Next'** buttons to scroll to "*<System>*". Press and release the **'Select'** button.
3. "*<Time>*" is displayed. Press and release the **'Select'** button.
4. "*<Set Time/Date>*" is displayed. Press and release the **'Select'** button.
5. *'Set Time'* is displayed and the hour digits will flash. Use the **'Prev'** and **'Next'** buttons to display the correct hour in 24 hour clock. Press and release the **'Select'** button.
6. The minutes will flash. Use the **'Prev'** and **'Next'** buttons to display the correct minutes. Press and release the **'Select'** button.
7. *'Set date'* is displayed and the *'Day'* will flash. Use the **'Prev'** and **'Next'** buttons to display the day. Press and release the **'Select'** button.
8. The *'Month'* will flash. Use the **'Prev'** and **'Next'** buttons to display the month. Press and release the **'Select'** button.
9. The *'Year'* will flash. Use the **'Prev'** and **'Next'** buttons to display the year. Press and release the **'Select'** button. *'Time Saved'* is displayed and then returns to *'Set Time/Date'*.
10. You can now use the **'Prev'** and **'Next'** buttons to scroll through the other options available. Press and release the **'Select'** button and confirm as required.

You can change the settings for:

- 12/24 hour clock display
- date format, DD-MM-YYYY or MM-DD-YYYY
- to auto update the time from the DAB signal or no update.

**Note:** An **'\***' will be displayed next to the current setting.

11. Press and release the **'Menu'** button to return to the station

### Software version

1. Make sure you are under DAB Mode, press and release the **'Menu'** button on the top of the radio.
2. Use the **'Prev'** and **'Next'** buttons to scroll to "*<System>*". Press and release the **'Select'** button.
3. Use the **'Prev'** or **'Next'** button to scroll to *'SW version'* to get the software version will be displayed.
4. Continue to press and release the **'Menu'** button to step back through the menu and return to the station display.

### Display backlight timeout

You can adjust the display backlight timeout. Options of permanently On, 10, 20, 30, 45, 60, 90, 120, and 180 seconds are available.

**Note:** A '\*' will be displayed next to the current setting.

1. In DAB mode, press and release the 'Menu' button.
2. Use the 'Prev' and 'Next' buttons to scroll to "<System>". Press and release the 'Select' button.
3. Use the 'Prev' and 'Next' buttons to scroll to "<Backlight>". Press and release the 'Select' button.
4. 'Timeout' is displayed. Press and release the 'Select' button. Use the 'Prev' and 'Next' buttons to scroll through the available backlight timeout options of permanently On, 10, 20, 30, 45, 60, 90, 120 or 180 seconds. Press and release the 'Select' button to confirm.

### Display language

You can change the display language of your radio, there are 4 options available; English, French, German and Italian.

**Note:** A '\*' will be displayed next to the current setting.

1. In DAB mode, press and release the 'Menu' button.
2. Use the 'Prev' and 'Next' buttons to scroll to "<System>". Press and release the 'Select' button.
3. Use the 'Prev' and 'Next' buttons to scroll to "<Language>". Press and release the 'Select' button.
4. Use the 'Prev' and 'Next' buttons to scroll to the display language you would like. Press and release the 'Select' button.
5. Press and release the 'Menu' button to return to the station display

**Note:** As soon as you select a different display language, all of the display information will be in this new language.

### Factory reset

You can reset your radio and restore all of the original factory settings.

**Note:** If you reset your radio all of your DAB station presets will be deleted.

1. Make sure you are under DAB Mode, press and release the 'Menu' button on the top of the radio.
2. Use the "Prev" or "Next" button to scroll to <System> and press the "Select" button to 'Select'.
3. Use the "Prev" or "Next" button to scroll to <Factory Reset> and press the "Select" button to 'Select'.
4. 'Use the "Prev" or "Next" button to select <Yes> and press the "Select" button to 'Select'.
5. 'Restarting...' is displayed. After a few seconds the display will change to 'Welcome to Digital Radio' and then 'Scanning...' whilst it scans for DAB stations. Please extend the telescopic aerial on the back of the radio.

## TECHNICAL SPECIFICATIONS

Power adaptor:	Input: AC100-240V/50Hz Output: DC 5V  1A  
Batteries:	4 x LR14 / "C" size batteries (optional, not supplied)
Power consumption:	4.5W
Output power:	2W RMS
Frequency range:	DAB Band III, 174 MHz to 240 MHz FM 87.5 MHz to 108 MHz

## IMPORTER

Wörlein GmbH	Tel.:	+49 9103 71 67 0
Gewerbestr. 12	Fax.:	+49 9103 71 67 12
D 90556 Cadolzburg	Email:	<a href="mailto:service@woerlein.com">service@woerlein.com</a>
Germany	Web:	<a href="http://www.woerlein.com">www.woerlein.com</a>

Technische Änderungen und Druckfehler vorbehalten  
 Copyright by Woerlein GmbH, 90556 Cadolzburg, [www.woerlein.com](http://www.woerlein.com)  
 Vervielfältigung nur mit ausdrücklicher Genehmigung der Woerlein GmbH

