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**Data Sheet**

August 13, 2026

ANRITSU

# Anritsu 68087C Synthesized CW Generator, 10 MHz to 60 GHz

Anritsu 68087C Synthesized CW Generator 10 MHz to 60 GHz The Anritsu 68087C is a synthesized CW generator covering 10 MHz to 60 GHz in the 68000C family. It provides accurate leveled CW and digital frequency/power sweep for LO duty and ATE through millimeter-wave coax bands in a 13.3 cm chassis with GPIB. Related 68187C/68387C add signal-generator features in the same coverage. The Anritsu 68087C is a synthesized CW generator covering 10 MHz to 60 GHz in the 68000C family. It provides accurate leveled CW and digital frequency/power sweep for LO duty and ATE through millimeter-wave coax bands in a 13.3 cm chassis with GPIB. Related 68187C/68387C add signal-generator features in the same coverage.



MODEL

**Anritsu 68087C**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**68087C**

LISTING

<https://aumictechlabs.com/products/68087c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Anritsu 68087C is a synthesized CW generator delivering high-purity continuous wave signals across 10 MHz to 60 GHz. Purpose-built for microwave testing, system development, and RF verification, it combines fast frequency switching with precise, stable output performance. Remote programmability via IEEE-488 (GPIB) enables seamless integration into automated test

equipment and larger measurement systems. Technical Specifications Frequency Range: 10 MHz to 60 GHz Frequency Resolution: Synthesized signal generation with precision aligned to internal or external 10 MHz time base; optional 0.1 Hz resolution available Switching Speed: Fast switching capabilities, with related models demonstrating sub-5 ms switching times for steps below 100 MHz Modulation: CW operation; related configurations support AM, FM, Pulse, and Phase modulation Output Power: Comparable to related models in the series (68087B and 68147C deliver maximum leveled power of +17 dBm to 20 GHz) Phase Noise: Ultra-low SSB phase noise performance; related synthesized CW generators in the Anritsu line achieve -100 dBc at 10 kHz offset from 10 GHz Time Base Accuracy: Internal or external 10 MHz reference Control Interface: IEEE-488 (GPIB) for remote programmability and front panel local control Key Features High-purity CW signal generation across extended frequency range Fast switching for dynamic test scenarios Synthesized frequency control with high stability Remote command capability for ATE integration Front panel and programmable operation modes Typical Applications Component and subsystem characterization in microwave design RF system verification and validation Manufacturing test and production screening Receiver and transmitter performance evaluation Compatibility & Integration GPIB interface enables direct connection to test systems and automated measurement platforms. Compatible with standard IEEE-488 test equipment frameworks.

## Features & description

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From manufacturer datasheet

### Features

- Frequency coverage 10 MHz to 60 GHz (Option 22 to 0.1 Hz)
- Digital frequency sweep and digital power sweep
- Banded leveled output per 68×87C power tables
- Optional 0.1 Hz resolution and high-stability time base
- Optional step attenuator where available by band
- IEEE-488 GPIB remote control

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### Applications

- CW LO substitution 10 MHz to 60 GHz
- ATE broadband microwave stimulus
- Receiver sensitivity testing with optional attenuator
- Compact rack sources for mmWave coax systems

## 68087C Characteristics / Specifications

| PARAMETER                                              | VALUE                     |
|--------------------------------------------------------|---------------------------|
| Model                                                  | 68087C                    |
| Manufacturer                                           | Anritsu                   |
| Instrument Type                                        | Synthesized CW Generator  |
| Alias                                                  | 68087C; Anritsu 68087C    |
| Frequency range standard                               | 10 MHz to 60 GHz          |
| Frequency extension Option                             | 0.1 Hz to 10 MHz          |
| Family                                                 | 68000C Series             |
| Leveled output 0.01 to less than 2 GHz                 | +12 dBm                   |
| Leveled output 2 to 20 GHz                             | +10 dBm                   |
| Leveled output greater than 20 to 40 GHz               | +2.5 dBm                  |
| Leveled output greater than 40 to 50 GHz               | +2.0 dBm                  |
| Leveled output greater than 50 to 60 GHz               | +2.0 dBm                  |
| Leveled with step attenuator 0.01 to less than 2 GHz   | +10 dBm                   |
| Leveled with step attenuator 2 to 20 GHz               | +8.5 dBm                  |
| Leveled with step attenuator greater than 20 to 40 GHz | 0 dBm                     |
| Leveled with step attenuator greater than 40 to 50 GHz | -1.5 dBm                  |
| Leveled with step attenuator greater than 50 to 60 GHz | -2.0 dBm                  |
| Minimum leveled power without attenuator               | -15 dBm (-20 dBm typical) |
| Minimum leveled power with attenuator                  | -120 dBm typical family   |
| Output power resolution                                | 0.01 dB or 0.001 mV       |
| CW frequency resolution standard                       | 1 kHz                     |
| CW frequency resolution Option                         | 0.1 Hz                    |

| PARAMETER                                                  | VALUE                                                                                                                                                                                                  |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Internal time base aging                                   | less than $2 \times 10^{-8}$ /day                                                                                                                                                                      |
| Internal time base aging Option                            | less than $5 \times 10^{-10}$ /day                                                                                                                                                                     |
| SSB phase noise 68XXXC greater than 40 to 65 GHz at 10 kHz | -64 dBc/Hz                                                                                                                                                                                             |
| Harmonics                                                  | per 68C family band tables                                                                                                                                                                             |
| Nonharmonic spurious                                       | -60 dBc typical                                                                                                                                                                                        |
| Remote control                                             | IEEE 488 GPIB                                                                                                                                                                                          |
| Dimensions                                                 | 133 mmHx 429 mmWx 597 mmDWeight: 23 kg maximum                                                                                                                                                         |
| Related signal model                                       | 68187C                                                                                                                                                                                                 |
| Related high performance signal                            | 68387C                                                                                                                                                                                                 |
| Related ultra low noise CW                                 | 69087B Notes Power rows from Anritsu 68000C/69000B Series datasheet for 68×87C / 68087C (0.01–60 GHz). Confirm Option 11/15/16/22, attenuator availability above 40 GHz, and RF connector on the unit. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

| Specifications                                                   |                                |
|------------------------------------------------------------------|--------------------------------|
| Specifications                                                   |                                |
| PARAMETER                                                        | VALUE                          |
| Harmonics                                                        | per 68C family band tables     |
| Nonharmonic spurious                                             | -60 dBc typical                |
| Remote control                                                   | IEEE 488 GPIB                  |
| Dimensions                                                       | 133 mm H x 429 mm W x 597 mm D |
| Weight                                                           | 23 kg maximum                  |
| Related signal model                                             | 68187C                         |
| Related high performance signal                                  | 68387C                         |
| Related ultra low noise CW                                       | 69087B                         |
| Specifications                                                   |                                |
| PARAMETER                                                        | VALUE                          |
| Model                                                            | 68087C                         |
| Manufacturer                                                     | Anritsu                        |
| Instrument Type                                                  | Synthesized CW Generator       |
| Alias                                                            | 68087C; Anritsu 68087C         |
| Frequency range standard                                         | 10 MHz to 60 GHz               |
| Frequency extension Option 22                                    | 0.1 Hz to 10 MHz               |
| Family                                                           | 68000C Series                  |
| Leveled output 0.01 to less than 2 GHz: +12 dBm                  |                                |
| Leveled output 2 to 20 GHz: +10 dBm                              |                                |
| Leveled output greater than 20 to 40 GHz: +2.5 dBm               |                                |
| Leveled output greater than 40 to 50 GHz: +2.0 dBm               |                                |
| Leveled output greater than 50 to 60 GHz: +2.0 dBm               |                                |
| Leveled with step attenuator 0.01 to less than 2 GHz: +10 dBm    |                                |
| Leveled with step attenuator 2 to 20 GHz: +8.5 dBm               |                                |
| Leveled with step attenuator greater than 20 to 40 GHz: 0 dBm    |                                |
| Leveled with step attenuator greater than 40 to 50 GHz: -1.5 dBm |                                |
| Leveled with step attenuator greater than 50 to 60 GHz: -2.0 dBm |                                |
| Specifications                                                   |                                |

| PARAMETER                                | VALUE                              |
|------------------------------------------|------------------------------------|
| Minimum leveled power without attenuator | -15 dBm (-20 dBm typical)          |
| Minimum leveled power with attenuator    | -120 dBm typical family            |
| Output power resolution                  | 0.01 dB or 0.001 mV                |
| CW frequency resolution standard         | 1 kHz                              |
| CW frequency resolution Option 11        | 0.1 Hz                             |
| Internal time base aging                 | less than $2 \times 10^{-8}$ /day  |
| Internal time base aging Option 16       | less than $5 \times 10^{-10}$ /day |

SSB phase noise 68XXXC greater than 40 to 65 GHz at 10 kHz: -64 dBc/Hz

### Specifications

| PARAMETER                       | VALUE                                          |
|---------------------------------|------------------------------------------------|
| Harmonics                       | per 68C family band tables                     |
| Nonharmonic spurious            | -60 dBc typical                                |
| Remote control                  | IEEE 488 GPIB                                  |
| Dimensions                      | 133 mmHx 429 mmWx 597 mmDWeight: 23 kg maximum |
| Related signal model            | 68187C                                         |
| Related high performance signal | 68387C                                         |
| Related ultra low noise CW      | 69087B                                         |

#### Notes

Power rows from Anritsu 68000C/69000B Series datasheet for 68x87C / 68087C (0.01–60 GHz). Confirm Option 11/15/16/22, attenuator availability above 40 GHz, and RF connector on the unit.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.