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Data Sheet
August 1, 2026

WILTON

Wilton 6647A-40 Sweep Generator, 10MHz to 20gHz

Wiltron / Anritsu 6647A-40 Programmable Sweep Generator The Wiltron 6647A-40 (Anritsu / Wiltron) isaprogrammable microwave sweep generator covering 10 MHz to 20 GHz. The base 6647A family is widely documented from 10 MHz to about 18.6 GHz; the -40 configuration is listed by equipment dealers as the extended-range variant to 20 GHz. The instrument provides leveled RF output greater than 10 dBm, multiple sweep modes, markers, and optional GPIB control of front-panel functions. Used for broadband RF and microwave stimulus, swept-frequency testing of amplifiers, filters, mixers, and antennas, scalar network measurements with detectors or power meters, and general lab/ATE microwave signal generation whereawide continuous sweep range is required. The Wiltron 6647A-40 (Anritsu / Wiltron) isaprogrammable microwave sweep generator covering 10 MHz to 20 GHz. The base 6647A family is widely documented from 10 MHz to about 18.6 GHz; the -40 configuration is listed by equipment dealers as the extended-range variant to 20 GHz. The instrument provides leveled RF output greater than 10 dBm, multiple sweep modes, markers, and optional GPIB control of front-panel functions. Used for broadband RF and microwave stimulus, swept-frequency testing of amplifiers, filters, mixers, and antennas, scalar network measurements with detectors or power meters, and general lab/ATE microwave signal generation

No photo

MODEL Wilton 6647A-40	CALIBRATION N/A — off-catalog OEM datasheet
CONDITION See OEM documentation	STATUS Not listed on Aumictech inventory
RFQ / SKU 6647A-40	LISTING Off-catalog — OEM dat asheet only

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

• Frequency coverage 10 MHz to 20 GHz (6647A-40 extended range) • Internally leveled maximum output greater than 10 dBm • Optional 70 dB attenuator (Option 2) for leveled output down to approximately -82 dBm class levels • Power level accuracy within about 1 dB (family documentation) • CW frequency accuracy approximately +/-10 MHz; sweep mode accuracy approximately +/-15 MHz below 50 MHz span class conditions • Sweep time 0.01 to 99 seconds • Sweep modes: full band, F1 to F2, M1 to M2, delta-F about F0, delta-F about F1 • Markers: video, RF, and intensity • Leveling modes: internal, external detector, and power meter • Optional GPIB (IEEE-488) access to front-panel controls • Can be phase-locked to an external counter for improved frequency accuracy

6647A Characteristics / Specifications

PARAMETER	VALUE
Model	6647A-40
Manufacturer	Wiltron (Anritsu)
Instrument Type	Programmable sweep / signal generator
Frequency Range	10 MHz to 20 GHz (-40 extended-range listing); base 6647A often stated as 10 MHz to 18.6 GHz
Output Power (Internally Leveled Maximum)	Greater than 10 dBm (greater than 10 mW)
Output With Optional 70 dB Attenuator	Greater than about -82 dBm class leveled range (Option 2)
Sweep Time	0.01 to 99 seconds
Sweep Modes	full band, F1 to F2, M1 to M2, delta-F about F0, delta-F about F1
Markers	video, RF, and intensity
Leveling	Internal; Detector; Power Meter
Remote Control	Optional GPIB / IEEE-488
Power Level Accuracy	Within approximately 1 dB (published family claim) Standard Operating Conditions Operate per Wiltron/Anritsu microwave generator environmental and RF safety practices. Use appropriate attenuators and connectors rated for the frequency and power level. Verify leveling detector/power-meter connections when using external leveling.
Leveling modes	internal, external detector, and power meter

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
Model	6647A-40
Manufacturer	Wiltron (Anritsu)
Instrument Type	Programmable sweep / signal generator
Frequency Range	10 MHz to 20 GHz (-40 extended-range listing); base 6647A often stated as 10 MHz to 18.6 GHz
Output Power (Internally Leveled Maximum)	Greater than 10 dBm (greater than 10 mW)
Output With Optional 70 dB Attenuator	Greater than about -82 dBm class leveled range (Option 2)

Frequency Accuracy, CW Mode: Approximately +/-10 MHz
Frequency Accuracy, Sweep Mode (less than or equal to 50 MHz conditions per family docs): Approximately +/-15 MHz

Specifications

PARAMETER	VALUE
Sweep Time	0.01 to 99 seconds
Sweep Modes	Full Sweep; F1 to F2; M1 to M2; deltaFabout F0; deltaFabout F1
Markers	Video; RF; Intensity
Leveling	Internal; Detector; Power Meter
Remote Control	Optional GPIB / IEEE-488
Power Level Accuracy	Within approximately 1 dB (published family claim)

Standard Operating Conditions
Operate per Wiltron/Anritsu microwave generator environmental and RF safety practices. Use appropriate attenuators and connectors rated for the frequency and power level. Verify leveling detector/power-meter connections when using external leveling.

Operational Notes
Confirm whether the installed configuration includes Option 2 (step attenuator) and GPIB before system integration. For phase-locked CW accuracy, connectasuitable external frequency counter as described in the manufacturer documentation. Use RF cables and adapters rated to at least 20 GHz for full-band work.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

Aumictech
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

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