## **Test Equipment Solutions Datasheet**

Test Equipment Solutions Ltd specialise in the second user sale, rental and distribution of quality test & measurement (T&M) equipment. We stock all major equipment types such as spectrum analyzers, signal generators, oscilloscopes, power meters, logic analysers etc from all the major suppliers such as Agilent, Tektronix, Anritsu and Rohde & Schwarz.

We are focused at the professional end of the marketplace, primarily working with customers for whom high performance, quality and service are key, whilst realising the cost savings that second user equipment offers. As such, we fully test & refurbish equipment in our in-house, traceable Lab. Items are supplied with manuals, accessories and typically a full no-quibble 2 year warranty. Our staff have extensive backgrounds in T&M, totalling over 150 years of combined experience, which enables us to deliver industry-leading service and support. We endeavour to be customer focused in every way right down to the detail, such as offering free delivery on sales, covering the cost of warranty returns BOTH ways (plus supplying a loan unit, if available) and supplying a free business tool with every order.

As well as the headline benefit of cost saving, second user offers shorter lead times, higher reliability and multivendor solutions. Rental, of course, is ideal for shorter term needs and offers fast delivery, flexibility, try-before-you-buy, zero capital expenditure, lower risk and off balance sheet accounting. Both second user and rental improve the key business measure of Return On Capital Employed.

We are based near Heathrow Airport in the UK from where we supply test equipment worldwide. Our facility incorporates Sales, Support, Admin, Logistics and our own in-house Lab.

All products supplied by Test Equipment Solutions include:

- No-quibble parts & labour warranty (we provide transport for UK mainland addresses).
- Free loan equipment during warranty repair, if available.
- Full electrical, mechanical and safety refurbishment in our in-house Lab.
- Certificate of Conformance (calibration available on request).
- Manuals and accessories required for normal operation.
- Free insured delivery to your UK mainland address (sales).
- Support from our team of seasoned Test & Measurement engineers.
- ISO9001 quality assurance.

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## SYNTHESIZED SWEEP SIGNAL GENERATOR

69A, 68B series

10 MHz to 65 GHz



A microwave synthesizer for any application
Anritsu's El Toro microwave synthesizers present 120 models, providing you the right synthesizer for your LO duty, component analysis, signal simulation, or A.T.E. applications. The 69A family, with the lowest Single Sideband (SSB) phase noise available, provides the ultimate performance at moderate cost. And includes models with unprecedented 0.01 to 65 GHz frequency coverage.

- 120 models for perfect fit to any application
- Ultra-low SSB phase noise; -100 dBc at 10 kHz offset from 10 GHz
- 0.01 to 65 GHz frequency coverage in a single coaxial output
- Waveguide extensions to 110 GHz
- Economical upgrades
- +17 dBm maximum power, -125 dBm minimum power
- Internal AM, FM, øM, pulse modulation
- User down-loaded complex modulation

#### **Applications**

### CW stimulus

The 69000A/68000B Synthesized CW Generators feature 10 MHz to 65 GHz frequency coverage. CW or step sweep, low SSB phase noise and spurious signals, output levels to +17 dBm, and optional 0.1 Hz resolution combine to make these sources ideal for local oscillator replacement applications. To meet requirements that expand over time, economical upgrades are available to any higher performing model. For the most demanding CW requirements, the 69000A and 68000B provide the ultimate in performance.

#### Swept measurements

The 69100A/68100B Synthesized Sweep Generators feature 10 MHz to 65 GHz analog, step, and manual sweep capability. Output levels to +17 dBm, and optional 0.1 Hz resolution are available at prices comparable to CW only sources. To meet requirements that expand over time, economical upgrades are available to any higher performing model. Features, performance, and value combine to make the 69100A and 68100B the optimum sources for your network analysis and swept A.T.E. source applications.

• High performance modulation for signal simulation requirements The 69200A/68200B Synthesized Signal Generators provide AM and FM via external modulating signals or internal arbitrary waveform generators. The internal generators offer 7 modulating waveforms, including Gaussian noise, as well as user-defined arbitrary waveforms. Pulse modulation parameters can be set externally or by the internal pulse generator. Doublet, triplet or quadruplet pulses make RADAR blind spot testing easy. Simultaneous synchronized modulations let you set complex signal scenarios across the entire 10 MHz to 65 GHz frequency range.

#### Complete synthesized modulation and sweep capabilities for any signal requirement

The 69300A/68300B Synthesized Sweep/Signal Generators provide all the capabilities of our CW generators, sweep generators and signal generators in a single package. The 69300A is the highest performance universal synthesized signal generator available today.

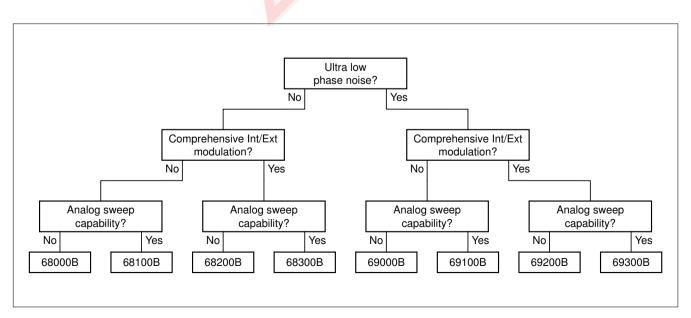
### El Toro synthesizers product selection table

Model	68000B	69000A	68100B	69100A	68200B	69200A	68300B	69300A
Ultra low ø noise		√		√		√		√
Step sweep	√	√	√	√	√	√	√	√
Analog sweep			√	√			√	√
Power sweep	√	√	√	√	√	√	√	√
Alternate sweep	√	√	√	√	√	√	√	√
Master/slave	√	√	√	√	√	√	√	√
AM			Ext	Ext	Int/Ext	Int/Ext	Int/Ext	Int/Ext
FM			Ext	Ext	Int/Ext	Int/Ext	Int/Ext	Int/Ext
øM					Opt. 6	Opt. 6	Opt. 6	Opt. 6
Pulse modulation			Ext	Ext	Int/Ext	Int/Ext	Int/Ext	Int/Ext
AM scan (1 to 20 GHz)					Opt. 20	Opt. 20	Opt. 20	Opt. 20
Internal power meter					Opt. 8	Opt. 8	Opt. 8	Opt. 8
360B SS Mode			√	√	√	√	√	√

### El Toro family model summary

	68000B CW Generator	69000A* <sup>1</sup> CW Generator	68100B Sweep Generator	69100A* <sup>1</sup> Sweep Generator	68200B Signal Generator	69200A* <sup>1</sup> Signal Generator	68300B Sweep/Signal Generator	69300A*1 Sweep/Signal Generator
2 to 20 GHz	68037B	69037A	68137B	69137A	68237B	69237A	68337B	69337A
0.5 to 20 GHz	68045B	69045A	68145B	69145A	68245B	69245A	68345B	69345A
0.01 to 20 GHz	68047B	69047A	68147B	69147A	68247B	69247A	68347B	69347A
2 to 26.5 GHz	68053B	69053A	68153B	69153A	68253B	69253A	68353B	69353A
0.5 to 26.5 GHz	68055B	69055A	68155B	69155A	68255B	69255A	68353B	69355A
0.01 to 26.5 GHz	68059B	69059A	68159B	69159A	68259B	69259A	68359B	69359A
2 to 40 GHz	68063B	69063A	68163B	69163A	68259B	69263A	68363B	69363A
0.5 to 40 GHz	68065B	69065A	68165B	69165A	68265B	69265A	68363B	69365A
0.01 to 40 GHz	68069B	69069A	68169B	69169A	68265B	69269A	68369B	69369A
0.5 to 50 GHz	68075B	69075A	68175B	69175A	68275B	69275A	68369B	69375A
0.01 to 50 GHz	68077B	69077A	68177B	69177A	68277B	69277A	68377B	69377A
0.5 to 60 GHz	68085B	69085A	68185B	69185A	68285B	69285A	68377B	69385A
0.01 to 60 GHz	68087B	69087A	68187B	69187A	68285B	69287A	68377B	69387A
0.5 to 65 GHz	68095B	69095A	68195B	69195A	68295B	69295A	68395B	69395A
0.01 to 65 GHz	68097B	69097A	68197B	69197A	68297B	69297A	68395B	69397A

<sup>\*1:</sup> Complete performance specifications for 69A synthesizers are available in the 69A Series Synthesizers Technical Data Sheet, part number 11410-00175





## **Specifications**

Sh	ecinications											
		Output	Twenty inc	dependent, p	resettable C	W frequence	ies (F0 to	F9 and M0 to I	M9)			
		Accuracy	Same as internal or external 10 MHz time base									
	CW mode	Internal time base stability	With aging With temp	g: <2 x 10 <sup>-8</sup> /erature: <2 x	day (<5 x 10 x 10 <sup>-8</sup> /°C ov	) <sup>−10</sup> /day with Option 16) er 0°C(<2 x 10 <sup>−10</sup> /°C with Option 16)						
		Resolution	1 kHz (0.1	Hz with Op	tion 11)							
		Switching time	<40 ms to	be within 1	kHz of final	frequency (ty	pical ma	ximum)				
	Analog sweep mode (69100A,	Sweep width	stop and b		g frequencie	s are phase		ous sweep. For ected during sw				
	69300A)	Accuracy	The lesse	r of ±30 MHz	z or (±2 MHz	widths) for	sweep sp	eeds of ≤50 MH	Hz/ms			
		Sweep time range	30 ms to 9	99 seconds								
 		Sweep width	Independe is phase-le		d, 1 kHz (0.1	Hz with Op	tion 11) to	full range. Eve	ery frequency	y step in sw	eep range	
euc		Accuracy	Same as i	nternal or ex	ternal 10 M	Hz time base	)					
Frequency	Phase-locked	Resolution (Min. step size)	1 kHz (0.1	Hz with Op	tion 11)							
Ē	step sweep mode	Steps			Hz with Option	on 11) to the		ency range of the last step is t		nt. (If the ste	ep size does	
		Dwell time per step		om 1 ms to								
		Switching time			•			ss (typical max	<u> </u>			
	Alternate sweep	mode	· ·					ep range may be			·	
	Manual sweep n	node	steps or s	tep size.				y between swee				
	Programmable f	requency agility		IB control, u ked step swe				cies can be stor nory.	ed and then	addressed	as a	
		Setting	<u> </u>	ndependent,				· ·				
	Markers	Video markers	+5 V or -5 V marker output, selectable. AUX I/O connector, rear panel									
		Intensity markers			4 7 7	- 14 Y	by mome	by momentary dwell in F			T .=.	
		Frequency range	500 MHz to ≤2.2 GHz (500 MHz units)	10 to 50 MHz (10 MHz units)	>50 MHz to ≤2 GHz (10 MHz units)	>2 to ≤20 GHz (2.2 to 500 MHz units)	>20 to ≤40 GHz	>40 to ≤50 GHz	>40 to ≤60 GHz	>40 to ≤45 GHz (65 GHz units)	>45 to ≤65 GHz (65 GHz units)	
	Spurious signals	Harmonic and harmonic related	<-50 dBc	<-30 dBc	<-40 dBc	<-60 dBc	<-40 dE	3c –	-	_	_	
		Harmonic and harmonic related*2	<-50 dBc	<-30 dBc	<-40 dBc	<-50 dBc	<-40 dE	8c <-40 dBc	<-30 dBc	<-25 dBc	<-30 dBc	
		Nonharmonic <-40 dBc						<-60	dBc			
		69XXXA			Offset from carrier							
				00/0/0//		100 Hz	z	1 kHz	10 kHz	<u>z</u>	100 kHz	
				z (69XX5A)		-92		-112	-112		-117	
			0.6 GH			-80		-98	-100		-102	
				(69XX5B)		-86		-106	-106		-111	
	0		2 GHz			-80 70		-100	-100		-105	
ļ-	, and the second	phase noise, 69XXXA	6 GHz			-78		-100	-100		-105	
Spectral purity*1	(dBc/Hz)		10 GHz			-74		-98 -05	-100		-105	
l g			20 GHz 26.5 GI			-66 -63		-95 -91	-100		-102	
ctra			40 GHz			-63 -60		<del>-81</del>	-94 -94		-96 -96	
Spe			50 GHz			-60 -57		_83	-88		<del>-90</del>	
			65 GHz			-54		-83	-88		-90	
			00 01 12	•		0.		Offset fro				
				68XXXB		100 Hz	z	1 kHz	10 kHz	z	100 kHz	
			0.6 GH	z (68XX5B)		-87		-100	-98		-115	
			0.6 GH	Z		-77		-88	-86		-100	
			2 GHz	(68XX5B)		-81		-94	-92		-109	
			2 GHz			-80		-88	-86		-102	
	Single-sideband	phase noise, 68XXXB	6 GHz			-78		-88	-86		-102	
	(dBc/Hz)		10 GHz			-73		-86	-83		-102	
			20 GHz	·		-66		-78	-78		-100	
			26.5 GI	Hz		-63		-78	-76		-96	
			40 GHz			-60		<del>-</del> 75	-72		-94	
			50 GHz			-54		-69	-66		-88	
			65 GHz	,		-54		-69	-64		-88	

# FREQUENCY SYNTHESIZERS, SIGNAL GENERATORS

	Models	Frequency range	Output power	Output power with step attenuator
6XX37		≥2 to ≤20 GHz	+13 dBm	+11 dBm
6XX45		≥0.5 to ≤20 GHz	+13 dBm	+11 dBm
6XX47		≥0.01 to ≤20 GHz	+13 dBm	+11 dBm
6XX53		≥2 to ≤20 GHz >20 to ≤26.5 GHz	+9 dBm +6 dBm	+7 dBm +3.5 dBm
6XX55		≥0.5 to ≤2.2 GHz >2.2 to ≤20 GHz >20 to ≤26.5 GHz	+13 dBm +9 dBm +6 dBm	+11 dBm +7 dBm +3.5 dBm
6XX59		≥0.01 to <2 GHz ≥2 to ≤20 GHz >20 to ≤26.5 GHz	+13 dBm +9 dBm +6 dBm	+11 dBm +7 dBm +3.5 dBm
6XX63		≥2 to ≤20 GHz >20 to ≤40 GHz	+9 dBm +6 dBm	+7 dBm +3 dBm
6XX65		≥0.5 to ≤2.2 GHz >2.2 to ≤20 GHz >20 to ≤40 GHz	+13 dBm +9 dBm +6 dBm	+11 dBm +7 dBm +3 dBm
6XX69		≥0.01 to <2 GHz ≥2 to ≤20 GHz >20 to ≤40 GHz	+13 dBm +9 dBm +6 dBm	+11 dBm +7 dBm +3 dBm
6XX75		≥0.5 to ≤2.2 GHz >2.2 to ≤20 GHz >20 to ≤40 GHz >40 to ≤50 GHz	+11 dBm +10 dBm +2.5 dBm +2.5 dBm	+10 dBm +8.5 dBm 0 dBm –1 dBm
6XX77		≥0.01 to <2 GHz ≥2 to ≤20 GHz >20 to ≤40 GHz >40 to ≤50 GHz	+12 dBm +10 dBm +2.5 dBm +2.5 dBm	+10 dBm +8.5 dBm 0 dBm –1 dBm
6XX85		≥0.5 to ≤2.2 GHz >2.2 to ≤20 GHz >20 to ≤40 GHz >40 to ≤50 GHz >50 to ≤60 GHz	+11 dBm +10 dBm +2.5 dBm +2 dBm +2 dBm	+10 dBm +8.5 dBm 0 dBm -1.5 dBm -2 dBm
6XX87		≥0.01 to <2 GHz ≥2 to ≤20 GHz >20 to ≤40 GHz >40 to ≤50 GHz >50 to ≤60 GHz	+12 dBm +10 dBm +2.5 dBm +2 dBm +2 dBm	+10 dBm +8.5 dBm 0 dBm -1.5 dBm -2 dBm
6XX95		≥0.5 to ≤2.2 GHz >2.2 to ≤20 GHz >20 to ≤40 GHz >40 to ≤50 GHz >50 to ≤65 GHz	+11 dBm +10 dBm +2.5 dBm 0 dBm -2 dBm	-
6XX97		≥0.01 to <2 GHz ≥2 to ≤20 GHz >20 to ≤40 GHz >40 to ≤50 GHz >50 to ≤65 GHz	+12 dBm +10 dBm +2.5 dBm 0 dBm -2 dBm	-
	6XX37	≥2 to ≤20 GHz	+17 dBm	+15 dBm
	6XX45	≥0.5 to ≤2.2 GHz >2.2 to ≤20 GHz	+13 dBm +17 dBm	+11 dBm +15 dBm
	6XX47	≥0.01 to <2 GHz ≥2 to ≤20 GHz	+13 dBm +17 dBm	+11 dBm +15 dBm
	6XX53	≥2 to <20 GHz ≥20 to ≤26.5 GHz	+13 dBm +10 dBm	+11 dBm +7.5 dBm
With Option 15 (high power)	6XX55	≥0.5 to ≤20 GHz >20 to ≤26.5 GHz	+13 dBm +10 dBm	+11 dBm +7.5 dBm
installed	6XX59	≥0.01 to <2 GHz ≥2 to ≤20 GHz >20 to ≤26.5 GHz	+13 dBm +13 dBm +10 dBm	+11 dBm +11 dBm +7.5 dBm
	6XX63	≥2 to ≤20 GHz >20 to ≤40 GHz	+13 dBm +6 dBm	+11 dBm +3 dBm
	6XX65	≥0.5 to ≤20 GHz >20 to ≤40 GHz	+13 dBm +6 dBm	+11 dBm +3 dBm
	6XX69	≥0.01 to ≤20 GHz >20 to ≤40 GHz	+13 dBm +6 dBm	+11 dBm +3 dBm



1 '			Maximum leve	elled nower to =	15 dBm (–20 dB	m typical) For	units with Ontion	n 15 installed m	ninimum	
	Levelled output	Without an attenuator		r is –5 dBm (–1		iii typicai). I oi	units with Option	ii 15 iiistalleu, ii	III III III III II	
	power range	With an attenuator	Maximum levelled power to −115 dBm (−120 dBm typical). For units with upper limit ≥50 GHz and units with Option 15 installed, minimum settable power is −105 dBm (−110 dBm typical).							
	Unleveled	Without an attenuator >40 dB below max power								
	output power range (typical)	With an attenuator	>130 dB belov	w max power						
	Power level switching time	Without change in step attenuator	thout change in step							
	(to within speci- fied accuracy)	With change in step attenuator	<20 ms typica	l						
			Attenuation below max power	0.01 to 0.05 GHz	0.05 to 20 GHz	20 to 40 GHz	40 to 50 GHz	50 to 60 GHz	60 to 65 GHz	
=	Accuracy and		0 to 25 dB	±2.0 dB	±1.0 dB	±1.0 dB	±1.5 dB	±1.5 dB	±1.5 dB	
RF output	flatness (step	Accuracy	25 to 60 dB	±2.0 dB	±1.0 dB	±1.0 dB	±1.5 dB	±3.5 dB	-	
Б Б	sweep and CW		>60 dB	±2.0 dB	±1.0 dB	±1.0 dB	±2.5 dB	±3.5 dB	-	
۳ ا	modes)		0 to 25 dB	±2.0 dB	±0.8 dB	±0.8 dB	±1.1 dB	±1.1 dB	±1.1 dB	
		Flatness	25 to 60 dB	±2.0 dB	±0.8 dB	±0.8 dB	±1.1 dB	±3.1 dB	_	
			>60 dB	±2.0 dB	±0.8 dB	±0.8 dB	±2.1 dB	±3.1 dB	_	
	Output power res	solution	0.01 dB							
	Level offset		Offsets the dis	splayed power le	evel to establish	a new referenc	e level			
		Range			ver levels at a si					
		Resolution	0.01 dB/step	50 a, po.	101 101010 41 4 0	g.o o oque				
	CW power	Accuracy	•	power accuracy	, ,					
	sweep	Step size				ne of the instrum	nent			
		Step dwell time	User-controlled, 0.01 dB to the full power range of the instrument  Variable from 1 ms to 99 seconds. If the sweep crosses a step attenuator setting, there will be a sweep dwell of approximately 20 ms to allow setting of the step attenuator.							
	Sweep frequency/step power		A power level step occurs after each frequency sweep. Power level remains constant for length of time required to complete each sweep.							
		External AM input	Log AM or linear AM input, front or rear-panel BNC, 50 $\Omega$ or 600 $\Omega$ input impedance All options selectable from modulation menu							
	Amplitude	AM sensitivity	Log AM: Continuously variable from 0 to 25 dB/V Linear AM: Continuously variable from 0 to 100%/V							
	modulation	AM depth	0 to 90% linear, 20 dB log (typical with RF level at 6 dB below maximum rated output)							
		AM bandwidth (3 dB)	DC to 50 kHz minimum (DC to 100 kHz typical)							
ڃ		Maximum input	±1 V	minimum (BO to	o Too Ki iz typica	ai <i>)</i>				
latic		External FM input		panel BNC 50 C	Ω or 600 Ω input	impodance All	antions salasta	blo from module	ation monu	
npo	ŀ	FM sensitivity			// // // // // // // // // // // // //	•	•			
0A/68100B modulation	Frequency modulation	Deviation	Narrow mode: ±	±10 MHz, DC to	o 500 kHz rates			50 WILLS V (WILLE T	ivi mode)	
A/6		On/off ratio	>50 dB	1110 103301 01 1	TO WITE OF TALE	x 000, 1 to 000	KI IZ TUICS			
69100		Rise/fall time	<1 µs typical							
69	Square wave modulation*4	Internal square wave generator	Four square wave signals (400 Hz, 1 kHz, 7.8125 kHz, and 27.8 kHz), selectable from Accuracy: Same as internal or external 10 MHz time base Square wave symmetry: 50% ±5% at all power levels					table from modu	lation menu	
	modulation	External input	Drive level: T	oanel BNC, sele ΓL compatible in e width: >5 μs	ctable from mod put	dulation menu				
		External input			egative-true BNC	, selectable from	m modulation m	ienu		
98		External AM input	Input logic: Po	sitive-true or ne	egative-true BNC ont or rear-panel odulation menu					
//68300B		·	Input logic: Po Log AM or line All options sel Log AM: Cont	ear AM input, fro ectable from mo inuously variable	ont or rear-panel	BNC, 50 Ω or 0				
00B/68300B		External AM input	Input logic: Po Log AM or line All options sel Log AM: Cont	esitive-true or ne ear AM input, fro ectable from mo inuously variable ontinuously varia	ont or rear-panel odulation menu e from 0 to 25 d	BNC, 50 Ω or 0				
58200B/68300B	Amplitude	External AM input  AM sensitivity	Input logic: Po Log AM or line All options sel Log AM: Cont Linear AM: Co 0 to 90% linear	esitive-true or ne ear AM input, fro ectable from mo inuously variable ontinuously varia ar; 20 dB log	ont or rear-panel odulation menu e from 0 to 25 d able from 0 to 10	BNC, 50 Ω or 0 B per volt 00% per volt				
0A/68200B/68300B	Amplitude modulation*5	External AM input  AM sensitivity  AM depth (typical)	Input logic: Pc Log AM or line All options sel Log AM: Cont Linear AM: Cc 0 to 90% linear DC to 50 kHz	esitive-true or ne ear AM input, fro ectable from mo inuously variable ontinuously varia ar; 20 dB log minimum (DC to	ont or rear-panel odulation menu e from 0 to 25 d	BNC, 50 Ω or 0 B per volt 00% per volt				
3300A/68200B/68300B		External AM input  AM sensitivity  AM depth (typical)  AM bandwidth  Flatness	Input logic: Pc Log AM or line All options sel Log AM: Cont Linear AM: Cc 0 to 90% linear DC to 50 kHz ±0.3 dB (DC t	esitive-true or ne ear AM input, fro ectable from mo inuously variable ontinuously varia ar; 20 dB log	ont or rear-panel odulation menu e from 0 to 25 d able from 0 to 10	BNC, 50 Ω or 0 B per volt 00% per volt				
4/69300A/68200B/68300B		External AM input  AM sensitivity  AM depth (typical)  AM bandwidth  Flatness  Accuracy	Input logic: Pc Log AM or line All options sel Log AM: Cont Linear AM: Cc 0 to 90% linea DC to 50 kHz ±0.3 dB (DC to ±5%	esitive-true or ne ear AM input, fro ectable from mo inuously variable ontinuously varia ar; 20 dB log minimum (DC to	ont or rear-panel odulation menu e from 0 to 25 d able from 0 to 10	BNC, 50 Ω or 0 B per volt 00% per volt				
69200A/69300A/68200B/68300B modulation		External AM input  AM sensitivity  AM depth (typical)  AM bandwidth  Flatness	Input logic: Pc Log AM or line All options sel Log AM: Cont Linear AM: Cc 0 to 90% linea DC to 50 kHz ±0.3 dB (DC t ±5% <5% typical	esitive-true or ne ear AM input, fro ectable from mo inuously variable ontinuously varia ar; 20 dB log minimum (DC to	ont or rear-panel odulation menu e from 0 to 25 d able from 0 to 10 o 100 kHz typica	BNC, 50 Ω or 0 B per volt 00% per volt				

# FREQUENCY SYNTHESIZERS, SIGNAL GENERATORS



		Waveforms	Sinusoid, squarewave, triangle, positive ramp, negative ramp, Gaussian noise, uniform noise, user defined (Option 10)
	Internal AM	Rate	0.1 Hz to 1 MHz sinusoidal, 0.1 Hz to 100 kHz squarewave, triangle, ramps
	generator	Resolution	0.1 Hz
		Accuracy	Same as instrument timebase
		Output	BNC connector, rear panel
		External FM input	Front or rear panel BNC, 50 $\Omega$ or 600 $\Omega$ input impedance All options selectable from modulation menu
		FM sensitivity	Continuously variable from ±10 kHz per volt to ±20 MHz per volt (locked, locked low noise and unlocked narrow modes), or ±100 kHz per volt to ±100 MHz per volt (unlocked wide mode) For 500 MHz units, maximum sensitivity is divided by 2 from 1 to 2.2 GHz and is divided by 4 from 500 MHz to 1 GHz.
	Frequency modulation	Deviation	Unlocked wide: ±100 MHz, DC to 100 Hz rates Unlocked narrow: ±10 MHz, DC to 8 MHz rates Locked: The lesser of ±10 MHz or rate x 300, 1 kHz to 8 MHz rates Locked low noise: The lesser of ±10 MHz or rate x 3, 50 kHz to 8 MHz rates
	modulation	FM bandwidth (3 dB)	Unlocked wide: DC to 100 Hz Unlocked narrow: DC to 10 MHz Locked: 1 kHz to 10 MHz Locked low noise: 30 kHz to 10 MHz
		Flatness	±1 dB (10 kHz to 1 MHz rates)
		Accuracy	10% (5% typical, ±200 kHz deviation, 100 kHz rate)
		Incidental AM	<2% (±1 MHz deviation, 1 MHz rate)
		Harmonic distortion	<1% (±1 MHz deviation, 10 kHz rate)
on		Maximum input	±1 V
modulation		Waveforms	Sinusoid, squarewave, triangle, positive ramp, negative ramp, Gaussian noise, uniform noise, user defined (Option 10)
Вп	Internal FM	Rate	0.1 Hz to 1 MHz sinusoidal, 0.1 Hz to 100 kHz squarewave, triangle, ramps
300	generator	Resolution	0.1 Hz
3/68		Accuracy	Same as instrument timebase
00E		Output	BNC connector, rear panel
69200A/69300A/68200B/68300B		øM deviation	Narrow mode (DC to 8 MHz rates): The lesser of ±3 radians or ±5 MHz/rate Wide mode (DC to 1 MHz rates): The lesser of ±400 radians or ±10 MHz/rate. For 6XXX5 units, maximum deviation is divided by 2 from >1.0 to ≤2.2 GHz and is divided by 4 from ≥0.5 to ≤1.0 GHz.
200A/6		øM bandwidth (3 dB, relative to 100 kHz rate)	Narrow mode: DC to 10 MHz Wide mode: DC to 1 MHz
69	Phase	øM flatness (relative to 100 kHz rate)	Narrow mode (DC to 1 MHz rates): ±1 dB Wide mode (DC to 500 kHz rates): ±1 dB
	modulation (øM, Option 6)	øM accuracy	10% (at 100 kHz sine wave)
	(2, 2	External øM input	Front or rear panel BNC (shares the FM input), 50 $\Omega$ or 600 $\Omega$ input impedance. All options selectable from modulation menu. Shares connectors with FM.
		External øM sensitivity	Continuously variable from ±0.0025 to ±5 radians per volt (narrow øM mode) or ±0.25 to ±500 radians per volt (wide øM mode), selectable from modulation menu. For 6XXX5 units, maximum sensitivity is divided by 2 from >1 to ≤2.2 GHz and is divided by 4 from ≥0.5 to <1 GHz.
		External øM maximum input	±1 V
	Internal and	Waveforms	Sine, square, triangle, positive ramp, negative ramp, Gaussian noise, uniform noise, user defined (option 10)
	Internal øM generator	Rate	0.1 Hz to 1 MHz for sine wave, 0.1 Hz to 100 kHz for other waveforms
	(shares the	Resolution	0.1 Hz
	internal FM generator)	Accuracy	Same as instrument timebase
		Output	BNC connector, rear panel
		On/off ratio	>80 dB
		Rise/fall time (10 to 90%)	<10 ns (<5 ns typical). (for 6XXX5 units, rise/fall time below 1 GHz is 15 ns)
	Pulse	Minimum levelled pulse width	<100 ns (≥2 GHz), <1 μs (<2 GHz)
	modulation*6	Minimum unleveled pulse width	<10 ns
		Pulse overshoot	<10% (for 60 and 65 GHz units, overshoot from 40 to 60 GHz is 20% typical)
	-	Level accuracy relative to CW	±0.5 dB (≥1 μs pulse width), ±1.0 dB (<1 μs pulse width) 100 Hz to 1 MHz PRF



		Video feed	through	<±10 mV, ≥2 GHz					
			compression	<8 ns typical					
	Pulse modulation*6	Pulse delay		External mode: 50 ns Triggered mode: 100 ns Triggered with delay mode: 200 ns					
	modulation	PRF range		DC to 10 MHz unleveled, 100 Hz to 5 MHz levelled					
		External in		Front or rear-panel BNC, selectable from modulation menu Drive level: TTL compatible input Input logic: Positive-true or negative-true, selectable from modulation menu					
		Frequency (selectable clock rate)		40 MHz 10 MHz					
nc		Pulse width		25 ns to 419 ms	100 ns to 1.6 s				
69200A/69300A modulation		Pulse perio	d	250 ns to 419 ms 600 ns to 1.6 s					
lodi			Singlet	0 to 419 ms	0 to 1.6 s				
Απ	Internal pulse	Variable	Doublet	100 ns to 419 ms	300 ns to 1.6 s				
300	generator	delay	Triplet	100 ns to 419 ms	300 ns to 1.6 s				
۸/69			Quadruplet	100 ns to 419 ms	300 ns to 1.6 s				
500/		Resolution		25 ns	100 ns				
692		Modes		Free-run, triggered, gated, delayed, singlet, doublet, t	triplet, quadruplet				
		Accuracy		10 ns (5 ns typical)					
		Outputs		Video pulse and sync out, rear-panel BNC connector	S				
		Frequency	range	1 to 20 GHz					
	SCAN	Attenuation	range*7	0 to 60 dB					
	modulator	Flatness		±2 dB (0 to 40 dB), ±3.5 dB (40 to 60 dB)					
	(Option 20, 6X237, 6X245, 6X247, 6X337, 6X345 and 6X347 only)	Step response		<1 μs					
		Sensitivity		-10 dB/V					
		Insertion loss (when engaged)		<6 dB (1 to 18 GHz), <8 dB (18 to 20 GHz)					
		Input		Rear-panel BNC (f) connector					
φ.	GPIB address			Selectable from a system menu					
ion,	IEEE-488 interfa	ce function s	ubset	SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, DT1, C0, C	· · · · · · · · · · · · · · · · · · ·				
Remote operation*8	Emulations			The instrument responds to the published GPIB commands and responses of the models 6XX00-series signal sources. When emulating another signal source, the instrument is limited to the capabilities, mnemonics, and parameter resolutions of the emulated instrument.					
	Stored setups			Stores front panel settings and nine additional front-panel setups in a non-volatile RAM. A system menu allows saving and recalling of instrument setups. Whenever the instrument is turned on, control settings come on at the same functions and values existing when the instrument was turned off.					
	Memory sequen	cing input		Accepts a TTL low-level signal to sequence through nine stored setups. AUX I/O connector, rear panel					
	Self-test			Instrument self-test is performed when SELF TEST soft-key is selected. If an error is detected, an error message is displayed in a window on the LCD identifying the probable cause.					
	Secure mode			Disables all frequency, power level, and modulation state displays. Stored setups saved in secure mode remain secured when recalled. Mode selectable from a system menu and GPIB					
	Reset			Returns instrument parameters to predefined default states or values. Any pending GPIB I/O is aborted. Selectable from the system menu					
General	Master/slave operation			Allows two 68X00B output signals to be swept with a user-selected frequency offset. One 68X00B unit controls the other via AUX I/O and SERIAL I/O connections. Requires MASTER/SAVE interface cable set (part no. ND36329)					
ğ	User level flatness correction			Allows user to calibrate out path loss due to external switching and cables via entered power table from a GPIB power meter or calculated data. When user level correction is activated, entered power levels are delivered at the point where calibration was performed. Supported power meters are Anritsu ML4803A and HP437B, 438A, and 70100A. Five user tables are available at up to 801 points/table					
	Warm up time (s	tandard time	base)	From standby: 30 minutes From cold start (0<): 120 h					
	Warm up time (c	ption 16 time	base)	From standby: 30 minutes From cold start (0<): 72 ho					
	Power			90 to 132 Vac or 180 to 264 Vac, 49 to 440 Hz, ≤400	VA				
	Standby			With ac line power connected, unit is placed in stand the OPERATE position	· · ·				
	Dimensions and	mass		429 (W) x 133 (H) x 597 (D) mm [5.25 (H) x 16.875 (					
1	RF output connector			Type K female (≤40 GHz models), Type V female (>40 GHz models)					

- \*1: All specifications apply to the phase-locked CW and step sweep modes at the lesser of +10 dBm output or maximum specified levelled output power, unless otherwise noted.
- ★2: >40 GHz units and units with Option 15 at maximum specified levelled output power
- \*3: For 6x1x5 units, maximum sensitivity is divided by 2 from 1 to 2.2 GHz and is divided by 4 from 500 MHz to 1 GHz.
- \*4: The RF output can be pulse modulated via an external modulating signal or an internal square wave generator
- \*5: All amplitude modulation specifications apply at 50% depth, 1 kHz rate, with RF level set 6 dB below maximum specified levelled output power, unless other-wise noted
- ★6: All pulse modulation specifications apply at maximum specified levelled output power, unless otherwise noted
- \*7: Maximum attenuation = attenuation ±flatness
- \*8: All instrument functions, settings, and operating modes (except for power on/standby) are controllable using commands sent from an external computer via the GPIB (IEEE-488 interface bus).

Ordering Information
Please specify model/order number, name and quantity when ordering.

FREQUENCY SYNTHESIZERS, SIGNAL GENERATORS

Model/Order No.	Name
	Main frame
69037A	Ultra Low Noise Synthesized CW Generator (2 to 20 GHz)*1
69045A	Ultra Low Noise Synthesized CW Generator (500 MHz to 20 GHz)*1
	Ultra Low Noise Synthesized CW Generator (10 MHz to 20 GHz)*1
69047A	Ultra Low Noise Synthesized CW Generator (10 MHz to 20 GHz)*1
69053A	Ultra Low Noise Synthesized CW Generator (2 to 26.5 GHz)*1
69055A	Ultra Low Noise Synthesized CW Generator
	(500 MHz to 26.5 GHz)*1
69059A	Ultra Low Noise Synthesized CW Generator
	(10 MHz to 26.5 GHz)*1
69063A	Ultra Low Noise Synthesized CW Generator (2 to 40 GHz)*1
69065A	Ultra Low Noise Synthesized CW Generator (500 MHz to 40 GHz)*1
69069A	Ultra Low Noise Synthesized CW Generator (10 MHz to 40 GHz)*1
69075A	Ultra Low Noise Synthesized CW Generator (500 MHz to 50 GHz)*2
69077A	Ultra Low Noise Synthesized CW Generator (10 MHz to 50 GHz)*2
	Little Law Noise Synthesized CW Generator (TO MILE to 50 GHz)
69085A	Ultra Low Noise Synthesized CW Generator (500 MHz to 60 GHz)*2
69087A	Ultra Low Noise Synthesized CW Generator (10 MHz to 60 GHz)*2
69095A	Ultra Low Noise Synthesized CW Generator (500 MHz to 65 GHz)*2
69097A	Ultra Low Noise Synthesized CW Generator (10 MHz to 65 GHz)*2
69137A	Ultra Low Noise Synthesized Sweep Generator (2 to 20 GHz)*1
69145A	Ultra Low Noise Synthesized Sweep Generator
	(500 MHz to 20 GHz)*1
69147A	Ultra Low Noise Synthesized Sweep Generator
	(10 MHz to 20 GHz)*1
69153A	Ultra Low Noise Synthesized Sweep Generator (2 to 26.5 GHz)*1
69155A	Ultra Low Noise Synthesized Sweep Generator
09133A	
004504	(500 MHz to 26.5 GHz)*1
69159A	Ultra Low Noise Synthesized Sweep Generator
	(10 MHz to 26.5 GHz)*1
69163A	Ultra Low Noise Synthesized Sweep Generator (2 to 40 GHz)*1
69165A	Ultra Low Noise Synthesized Sweep Generator
	(500 MHz to 40 GHz)*1
69169A	Ultra Low Noise Synthesized Sweep Generator
	(10 MHz to 40 GHz)*1
69175A	Ultra Low Noise Synthesized Sweep Generator
0017071	(500 MHz to 50 GHz)*2
69177A	Ultra Low Noise Synthesized Sweep Generator
09177A	
001054	(10 MHz to 50 GHz)*2
69185A	Ultra Low Noise Synthesized Sweep Generator
	(500 MHz to 60 GHz)*2
69187A	Ultra Low Noise Synthesized Sweep Generator
	(10 MHz to 60 GHz)*2
69195A	Ultra Low Noise Synthesized Sweep Generator
	(500 MHz to 65 GHz)*2
69197A	Ultra Low Noise Synthesized Sweep Generator
	(10 MHz to 65 GHz)*2
69237A	Ultra Low Noise Synthesized Signal Generator (2 to 20 GHz)*1
69245A	Ultra Low Noise Synthesized Signal Generator
	(500 MHz to 20 GHz)*1
69247A	Ultra Low Noise Synthesized Signal Generator
002	(10 MHz to 20 GHz)*1
69253A	Ultra Low Noise Synthesized Signal Generator (2 to 26.5 GHz)*1
69255A	Ultra Low Noise Synthesized Signal Generator
	(500 MHz to 26.5 GHz)*1
69259A	Ultra Low Noise Synthesized Signal Generator
	(10 MHz to 26.5 GHz)*1
69263A	Ultra Low Noise Synthesized Signal Generator (2 to 40 GHz)*1
69265A	Ultra Low Noise Synthesized Signal Generator
	(500 MHz to 40 GHz)*1
69269A	Ultra Low Noise Synthesized Signal Generator
	(10 MHz to 40 GHz)*1
69275A	Ultra Low Noise Synthesized Signal Generator
0327371	(500 MHz to 50 GHz)*2
C0077A	
69277A	Ultra Low Noise Synthesized Signal Generator
	(10 MHz to 50 GHz)*2
69285A	Ultra Low Noise Synthesized Signal Generator
	(500 MHz to 60 GHz)*2
69287A	Ultra Low Noise Synthesized Signal Generator
	(10 MHz to 60 GHz)*2
69295A	Ultra Low Noise Synthesized Signal Generator
	(500 MHz to 65 GHz)*2
69297A	Ultra Low Noise Synthesized Signal Generator
302077	(10 MHz to 65 GHz)*2
	(10 iii iz to 00 di iz)

69345A  Ultra Low Noise Synthesized Sweep/Signal Generator (2 to 20 GHz)*1  Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 20 GHz)*1  Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 20 GHz)*1  Ultra Low Noise Synthesized Sweep/Signal Generator (2 to 26.5 GHz)*1  Ultra Low Noise Synthesized Sweep/Signal Generator (2 to 26.5 GHz)*1  Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 26.5 GHz)*1  69363A  Ultra Low Noise Synthesized Sweep/Signal Generator (2 to 40 GHz)*1  Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 26.5 GHz)*1  69365A  Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 40 GHz)*1  Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 40 GHz)*1  Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 50 GHz)*2  Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 50 GHz)*2  Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 60 GHz)*2  Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 60 GHz)*2  69387A  Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 60 GHz)*2  69395A  Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 66 GHz)*2  69397A  Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 66 GHz)*2  Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 66 GHz)*2  Synthesized CW Generator (2 to 20 GHz)*1  Synthesized CW Generator (2 to 20 GHz)*1  Synthesized CW Generator (2 to 20 GHz)*1  Synthesized CW Generator (2 to 26 GHz)*1  Synthesized CW Generator (2 to 40 GHz)*1  Synthesized CW Generator (10 MHz to 26.5 GHz)*1  Synthesized CW Generator (10 MHz to 66 GHz)*2	Model/Order No.	Name
69345A Ültra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 20 GHz)**1 69353A Ültra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 20 GHz)**1 69355A Ültra Low Noise Synthesized Sweep/Signal Generator (2 to 26.5 GHz)**1 69355A Ültra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 26.5 GHz)**1 69363A Ültra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 26.5 GHz)**1 69363A Ültra Low Noise Synthesized Sweep/Signal Generator (2 to 40 GHz)**1 69365A Ültra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 40 GHz)**1 69365A Ültra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 40 GHz)**1 69367A Ültra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 50 GHz)**2 69377A Ültra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 50 GHz)**2 69375A Ültra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 60 GHz)**2 69387A Ültra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 60 GHz)**2 69387A Ültra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 60 GHz)**2 69397A Ültra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 60 GHz)**2 69397A Ültra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 65 GHz)**2 69397A Ültra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 65 GHz)**2 68037B Synthesized CW Generator (2 to 20 GHz)**1 68045B Synthesized CW Generator (2 to 20 GHz)**1 68045B Synthesized CW Generator (2 to 40 GHz)**1 68053B Synthesized CW Generator (500 MHz to 26.5 GHz)**1 68063B Synthesized CW Generator (500 MHz to 26.5 GHz)**1 68063B Synthesized CW Generator (10 MHz to 40 GHz)**1 68063B Synthesized CW Generator (2 to 26.5 GHz)**1 68063B Synthesized CW Generator (500 MHz to 40 GHz)**2 68063B Synthesized CW Generator (500 MHz to 60 GHz)**2 68063B Synthesized Sweep Generator (500 MHz to 60 GHz)**2 68063B Synthesized Sweep G	69337A	
G9357A   Ultra Low Noise Synthesized Sweep/Signal Generator (2 to 26.5 GHz)*1   Ultra Low Noise Synthesized Sweep/Signal Generator (2 to 26.5 GHz)*1   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 26.5 GHz)*1   G9359A   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 26.5 GHz)*1   G9363A   Ultra Low Noise Synthesized Sweep/Signal Generator (2 to 40 GHz)*1   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 40 GHz)*1   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 40 GHz)*1   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 40 GHz)*1   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 50 GHz)*2   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 50 GHz)*2   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 50 GHz)*2   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 60 GHz)*2   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 60 GHz)*2   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 40 GHz)*2   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 40 GHz)*2   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 46 GHz)*2   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 65 GHz)*2   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 20 GHz)*1   Synthesized CW Generator (2 to 20 GHz)*1   Synthesized CW Generator (2 to 20 GHz)*1   Synthesized CW Generator (2 to 26.5 GHz)*1   Synthesized CW Generator (2 to 40 GHz)*1   Synthesized CW Generator (10 MHz to 40 GHz)*2   Synthesized CW Generator (10 MHz to 40 GHz)*2   Synthesized CW Generator (10 MHz to 60 GHz)*2   Synthesized CW Generator (500 MHz to 60 GHz)*2   Synthesized Sweep Generator (10 MHz to 60 GHz)*2   Synthesized Sw	69345A	Ultra Low Noise Synthesized Sweep/Signal Generator
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G9355A   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 26.5 GHz)**1   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 26.5 GHz)**1   Ultra Low Noise Synthesized Sweep/Signal Generator (2 to 40 GHz)**1   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 40 GHz)**1   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 40 GHz)**1   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 40 GHz)**1   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 50 GHz)**2   Ultra Low Noise Synthesized Sweep/Signal Generator (10 MHz to 50 GHz)**2   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 60 GHz)**2   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 60 GHz)**2   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 60 GHz)**2   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 65 GHz)**2   Ultra Low Noise Synthesized Sweep/Signal Generator (500 MHz to 65 GHz)**2   Synthesized CW Generator (2 to 20 GHz)**1   Synthesized CW Generator (2 to 20 GHz)**1   Synthesized CW Generator (2 to 20 GHz)**1   Synthesized CW Generator (10 MHz to 20 GHz)**1   Synthesized CW Generator (10 MHz to 20 GHz)**1   Synthesized CW Generator (500 MHz to 40 GHz)**2   Synthesized CW Generator (500 MHz to 40 GHz)**2   Synthesized CW Generator (500 MHz to 60 GHz)**2   Synthesized Sweep Generator (10 MHz to 60 GHz)**2   Synthesized Sweep Generator (10 MHz to 60 GHz)**2   Synthesized Sweep Generator (10 MHz to 60 GHz)**2   Synthesized Swe	69353A	Ultra Low Noise Synthesized Sweep/Signal Generator
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68285B Synthesized Signal Generator (500 MHz to 60 GHz)*2		Synthesized Signal Generator (500 MHz to 60 GHz)*2
68287B Synthesized Signal Generator (10 MHz to 60 GHz)*2	68287B	Synthesized Signal Generator (10 MHz to 60 GHz)*2
68295B Synthesized Signal Generator (500 MHz to 65 GHz)*2	68295B	Synthesized Signal Generator (500 MHz to 65 GHz)*2
68297B Synthesized Signal Generator (10 MHz to 65 GHz)*2	68297B	Synthesized Signal Generator (10 MHz to 65 GHz)*2

Model/Order No.	Name
68337B	Synthesized Sweep/Signal Generator (2 to 20 GHz)*1
68345B	Synthesized Sweep/Signal Generator (500 MHz to 20 GHz)*1
68347B	Synthesized Sweep/Signal Generator (10 MHz to 20 GHz)*1
68353B	Synthesized Sweep/Signal Generator (2 to 26.5 GHz)*1
68355B	Synthesized Sweep/Signal Generator (500 MHz to 26.5 GHz)*1
68359B	Synthesized Sweep/Signal Generator (10 MHz to 26.5 GHz)*1
68363B	Synthesized Sweep/Signal Generator (2 to 40 GHz)*1
68365B	Synthesized Sweep/Signal Generator (500 MHz to 40 GHz)*1
68369B	Synthesized Sweep/Signal Generator (10 MHz to 40 GHz)*1
68375B	Synthesized Sweep/Signal Generator (500 MHz to 50 GHz)*2
68377B	Synthesized Sweep/Signal Generator (10 MHz to 50 GHz)*2
68385B	Synthesized Sweep/Signal Generator (500 MHz to 60 GHz)*2
68387B	Synthesized Sweep/Signal Generator (10 MHz to 60 GHz)*2
68395B	Synthesized Sweep/Signal Generator (500 MHz to 65 GHz)*2
68397B	Synthesized Sweep/Signal Generator (10 MHz to 65 GHz)*2
	Options
Option 1	Rack mounting kit, includes one set of track slides (90° tilt
	capability), mounting ears, and front panel handles for
0-4 04	mounting in a standard 19-inch equipment rack
Option 2A	Step attenuator (10 dB/step, high-end frequency of ≤26.5 GHz, rated output power is reduced)
Option 2B	Step attenuator (10 dB/step, high-end frequency of ≤40 GHz,
5 p	rated output power is reduced)
Option 2C	Step attenuator (10 dB/step, high-end frequency of ≤50 GHz,
Option 2D	rated output power is reduced) Step attenuator (10 dB/step, high-end frequency of ≤60 GHz,
Ontion C	rated output power is reduced) Phase modulation capability FM input and FM generator
Option 6	become FM/øM input and FM/øM generator (69200A, 68200B,
	69300A and 68300B series) Not available with option 7
Option 7	Generators deletes the internal AM and FM generators
opuon /	(69200A, 68200B, 69300A and 68300B series). External AM
	and FM capability remains unchanged. Not available in
	combination with Option 6, 8, 10 or 20
Option 8	Internal power meter adds an internal power (69200A, 68200B,
	69300A and 68300B series) compatible with 560-7, 5400-7, or
	6400-71 series detectors. Not available with Option 7
Option 9	Rear panel RF output (moves RF output connector to the rear panel)
Option 10	Complex modulation (user defined modulation includes serial
	cable and Windows® based software) (69200A, 68200B,
	69300A and 68300B series) (*Not available with Option 7)
Option 11	0.1 Hz frequency resolution (provides frequency resolution of
Ontion 14	0.1 Hz)
Option 14	Anritsu 360B VNA compatibility (modifies rack mounting hardware to mate unit in Anritsu 360B VNA console)
Option 15	High power output (provides high-power from 2 to 26.5 GHz)
Option 16	High stability time base (adds an ovenized, 10 MHz crystal
-   -	oscillator as a high-stability time base)
Option 17	Delete front panel (deletes the front panel for use in remote
'	control applications where a front panel display and keyboard
	control are not needed)
Option 18	MM-wave bias (rear panel bias output to drive 54000-XX
	WRXX multiplier. BNC twinax: not available with Option 20)
Option 19	SCPI programmability adds GPIB command mnemonics
	complying with Standard Commands for Programmable
	Instruments (SCPI), Version 1993.0. SCPI programming
0-4: 00	complies with IEEE 488.2–1987
Option 20	SCAN modulator (adds an internal SCAN modulator for
	simulating high-depth amplitude modulated signals in models
	68237B, 68337B, 68247B and 68347B only. Requires an
	external modulating signal input: not available in combination with Option 7 or Option 18)
	Space 7 of Space 10)
	Accessories
34RKNF50	Ruggedized K-to-Type N Female Adaptor (DC to 20 GHz)
34VKF50	V Male-to-K Female (DC to 46 GHz)
34RVNF50	Ruggedized V-to-Type N Female Adaptor (DC to 20 GHz)
ND36329	MASTER/SLAVE interface cable
761-69	Protective front panel cover
760-177	Transit case
2300-16	69100A/68100B/68100A instrument driver for national instruments LabWindows® Ver. 2.2
2300-19	69200A/68200B/68300B instrument driver for national
2200 20	Instruments LabWindows® Ver. 2.2
2300-20	69000A/68000B instrument driver for national instruments LabWindows® Ver. 2.2

<sup>\*1:</sup> K female output connector\*2: V female output connector