



Section 1-3: General Purpose Amplifier Series

www.3jmicrowave.com

Frequency Coverage: 2 to 110 GHz

Applications:

- Microwave and Millimeter Amplification for the general Purpose
- Instrumentations
- Test Bench

Features:

- State-of-the-art Solid State Packaging Technologies
- Various Bandwidth Coverage
- Coax or Waveguide RF connectors



Descriptions:

3J Microwave, Inc. offers a complete line of general-purpose amplifier in frequency range of 2 to 110 GHz. The available state-of-the-art solid-state devices, technology & packaging techniques are utilized in the series of the general-purpose amplifiers to ensure the cutting edge performance achieved. Coax RF connectors are available in the frequency range of 67 GHz and below. Waveguide connectors are designed to cover eight waveguide

bands from K to W-Band in frequency range of 18 to 110 GHz. The series general-purpose amplifiers are designed for the various applications such as gain blocks, drivers, instrumentations & bench test etc. The general-purpose amplifiers are sorted in two categories: 1) **GACX** series coax general purpose amplifiers; 2) **GAWG** series waveguide general-purpose amplifiers.

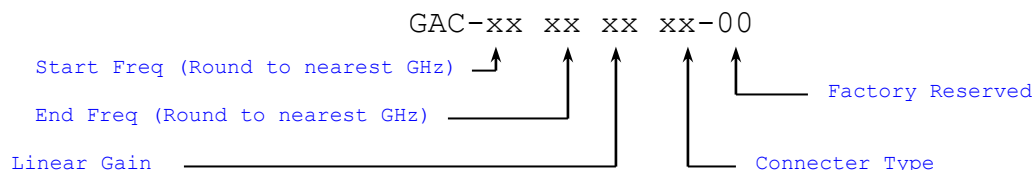
GAC Series Coax General Purpose Specifications:

Model Number**	Freq (GHz)	Bandwidth (GHz)	NF (dB)	Gain (dB)	Output P1dB (dBm)	DC Bias* (V/mA)	RF Connector	Outline
PAC-xxxxxxxx-00	1-27	2 to 26	5-8	10-40	+20	+8/80-500	SMA	A01,A02
	1-40	2 to 39			+18		2.92 mm	B01,B02
	1-50	2 to 49			+15		2.40 mm	C01,C02
	1-67	2 to 66			+13		1.85 mm	

* The Bias Voltage and Current may vary depending on the specifications

** Please see "how to order" for the model number details

How to Order:



Connector Type	SMA		2.92 mm		2.4 mm		1.85 mm	
	Male	Female	Male	Female	Male	Female	Male	Female
Designation	SM	SF	KM	KF	2M	2F	VM	VF



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GAC Model Number Example:

Model Number of a linear Gain 35 dB Coax General-Purpose Amplifier with 2.92 mm Female Connectors at 32 to 38 GHz:

PAC-323835KF-00

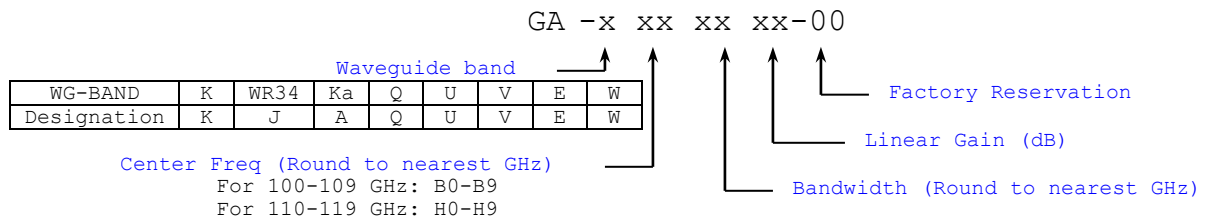
GA Series Waveguide General Purpose Specifications:

Model Number**	Freq (GHz)	BW (GHz)	NF (dB)	Gain (dB)	Output P1dB (dBm)	DC Bias* (V/mA)	RF Connector	Outline
GA-xxxxxxx-00	18-27	2 to 9	5.0	10-40	+16	+8/80-500	UG595-U	A01, A02
	22-33	2 to 11					UG595-UM	B01, B02
	26-40	2 to 14					UG599-U	C01, C02
	33-50	3 to 17	8.0		+13		UG383-U	
	40-60	3 to 20					UG383-UM	
	50-75	5 to 25	10.0		+12		UG385-U	A01, A02
	60-90	5 to 30			+10		UG387-U	B01, C01
	75-110	5 to 35			+7		UG387-UM	

* The Bias Voltage and Current may vary depending on the specifications

** Please see "how to order" for the model number details

How to Order:



GA Model Number Example:

Model Number of a V-Band Waveguide 40 dB gain General Purpose Amplifier at 65 ± 3 GHz:

GA-V650640-00