

Product Bulletin



VM40A Series 40 Gb/s Small Signal Amplifier for OC768

The JDS Uniphase VM40A small signal amplifier is a gain block designed to boost the signal level generated at the optical to electrical receiver stage (PIN/APD). It is capable of reproducing a sinusoidal EYE pattern signal running at OC768 data rates, with an output level up to 2 Volts peak-to-peak maximum.

The VM40A Series is available in two gain configurations: 17 dB and 35 dB. All parameters are specified between 100 KHz and 20 GHz (3 dB bandwidth).

Key Features

- Gain block following PIN photo diode
- Noise figure < 7 dB
- 17 or 35 dB gain available

Applications

- 40 Gb/s NRZ receiver systems

40 Gb/s Small Signal Amplifier Performance Specifications

Low Gain (17 dB) Specifications

Parameter	Test Condition	Min	Typ	Max	Units
Gain Variation	Over Vin, Temperature	-1.5	-	+1.5	dB
Rise Time		-	12.5	-	ps
Noise Figure		-	-	7.0	dB
Output Voltage		2	-	-	Vp-p
+12 V Power Consumption		-	140	-	mA
-12 V Power Consumption		-	20	-	mA

Mechanical Dimensions: 1" x 1" x 0.224" inches

Connector Types: 2.92 mm female

High Gain (35 dB) Specifications

Parameter	Test Condition	Min	Typ	Max	Units
Gain Variation	Over Vin, Temperature	-1.5	-	+1.5	dB
Rise Time		-	13	-	ps
Noise Figure		-	-	7.2	dB
Output Voltage		2	-	-	Vp-p
+12 V Power Consumption		-	280	-	mA
-12 V Power Consumption		-	40	-	mA

Mechanical Dimensions: 1.54" x 1" x 0.224" inches.

Connector Types: 2.92 mm female

Ordering information

For more information on this or other products and their availability, please contact your local JDS Uniphase sales representative or JDS Uniphase directly at 732 465-2800, or by fax 732 465-2801, or via email at sales.nj@us.jdsuniphase.com. Visit our Web site at www.jdsuniphase.com.



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