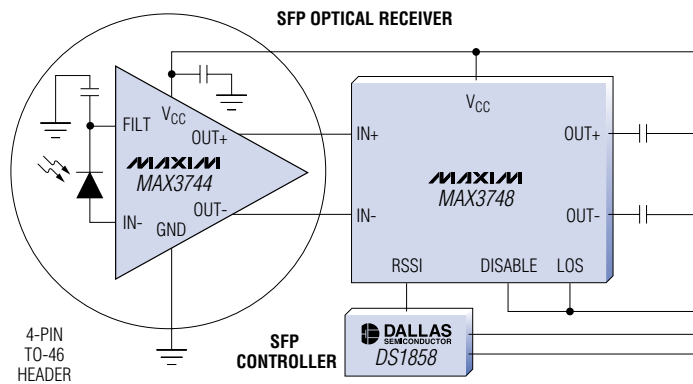


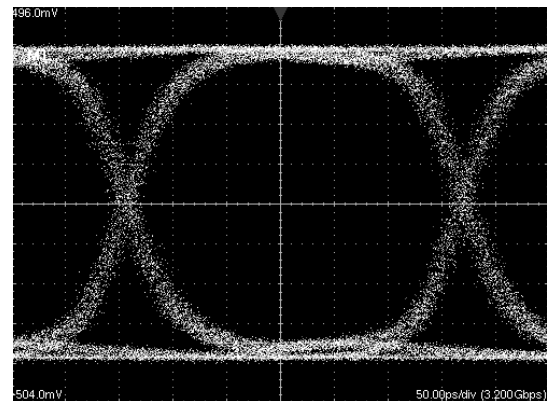
COMPACT LIMITING AMPLIFIER IDEAL FOR MULTIRATE SFF/SFP MODULES

3mm x 3mm Footprint—155Mbps to 3.2Gbps Operation

The MAX3748 limiting amplifier is ideal for SFF/SFP transceiver modules. It features a programmable loss-of-signal function and output disable feature. It has better than 5mV input sensitivity and generates only 8.5ps deterministic jitter at 3.2Gbps. When DC-coupled to the MAX3744, it generates an RSSI signal for receive power monitoring, as required by the SFF 84723 specification.



MAX3748 OUTPUT WITH 5mV_{p-p} INPUT @ 3.2Gbps



Maxim SFP Chipset

Part	Description	Data Rate	Temp Range (°C)	Size/Package	Price [†] (\$)
MAX3744E/D*	Transimpedance Amplifier	155Mbps to 2.7Gbps	-40 to +85	30mil x 50mil, Die	—
MAX3748ETE	Limiting Amplifier	155Mbps to 3.2Gbps	-40 to +85	3mm x 3mm, 16-Pin QFN	7.00
MAX3735	FP/DFB Driver	155Mbps to 2.7Gbps	-40 to +85	4mm x 4mm, 24-Pin QFN	7.95
MAX3740	VCSEL Driver	1Gbps to 3.2Gbps	-40 to +85	4mm x 4mm, 24-Pin QFN	7.45
DS1859*	SFP Controller	N/A	-40 to +85	4mm x 4mm, 16 BGA	—

[†]1000-up recommended resale. Prices provided are for design guidance and are FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.

*Future product—contact factory for availability.



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