

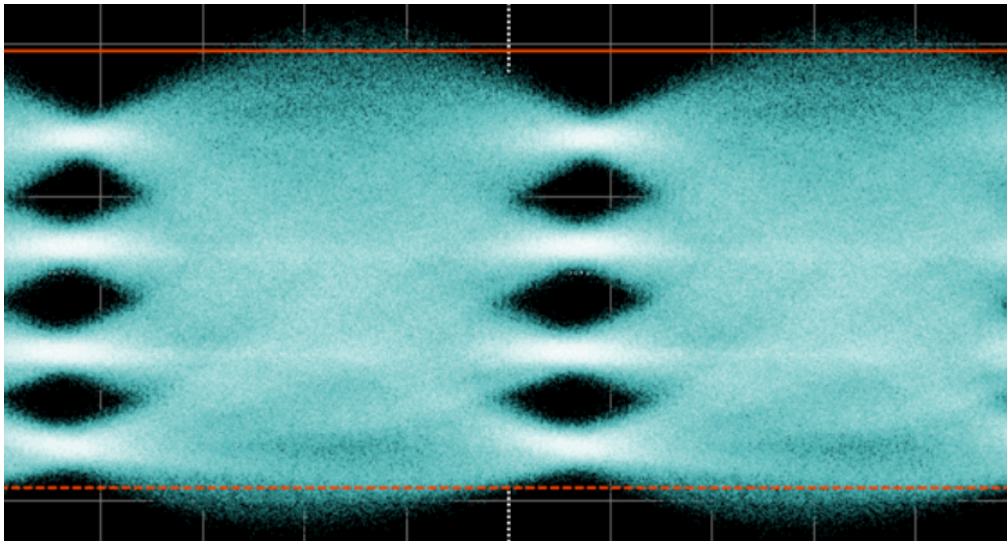
106 Gbps PAM4 VCSEL

850nm multimode emission
Data rates up to 106 Gbps
6-inch process, high volume and uniformity
GR468 reliability compliant
IEEE 802.3db performance compliant

Applications :

Optical transceiver, active optical cable for AI computing and cloud data center

106 Gbps PAM4 VCSEL Typical Eye diagram



1x1 singlet and 1x4 arrays



CHARACTERISTICS

	106 Gbps PAM4 VCSEL
Working Temperature (Module Case Temperature)	(0 – 70 °C)
Modulation Bandwidth	25 GHz
RINOMA	< -139 dB/Hz
Data Transmission Distance	50 or 100 m
Estimated Wear-out Life	> 10 years
Die Dimensions for 1X4 array	980 um (Width) * 265 um (Length) * 150 um (Thickness)



Notes:

CTR: 0 °C to +70 °C (32 °F to +158 °F)
 ITR: -40 °C to +85 °C (-40 °F to +185 °F)
 ESR: 25 Gbps ESR means 300 m data transmission