

FINISAR CORPORATION

**FCBG110SD1CXX,
PVT,10G,SFP+CABLE,LIMITING,MM,0/70C,
850NM VCSEL,PIN,ROHS COMPLIANT**

PRODUCT VALIDATION TEST REPORT

**1185884, Reversion A
DVT,STD PVT,FCBG110SD1CXX**

Apr 17, 2013

Finisar

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Section 1: Executive summary

A standard PVT was performed on FCBG110SD1CXX 10G, SFP+ CABLE, as part of the requirement for DVT phase exit.

Conclusion

The FCBG110SD1CXX 10G, SFP+ CABLE passes this Product Validation Test program per the requirements established in Section 2 of this report.

SECTION 2: PASS CRITERIA AND TEST DATA

Test Name	Spec Range	Minimum Measured	Maximum Measured	Pass / Total
Rx Mask margin(%)	$x > 0$	42.00	63.00	11/11
Rx Eye Differential Amplitude(mV)	$300 < x < 850$	532.00	598.00	11/11
Rx Jitter pp(ps)	$x < 67.9$	14.00	24.00	11/11
Rx Rise Time(ps)	$x > 28$	32.40	35.60	11/11
Rx Fall Time(ps)	$x > 28$	32.00	38.20	11/11
Module supply current(A)(single end)	$x < 0.25$	0.11	0.13	11/11
Power consumption(W)(single end)	$x < 0.875$	0.34	0.44	11/11

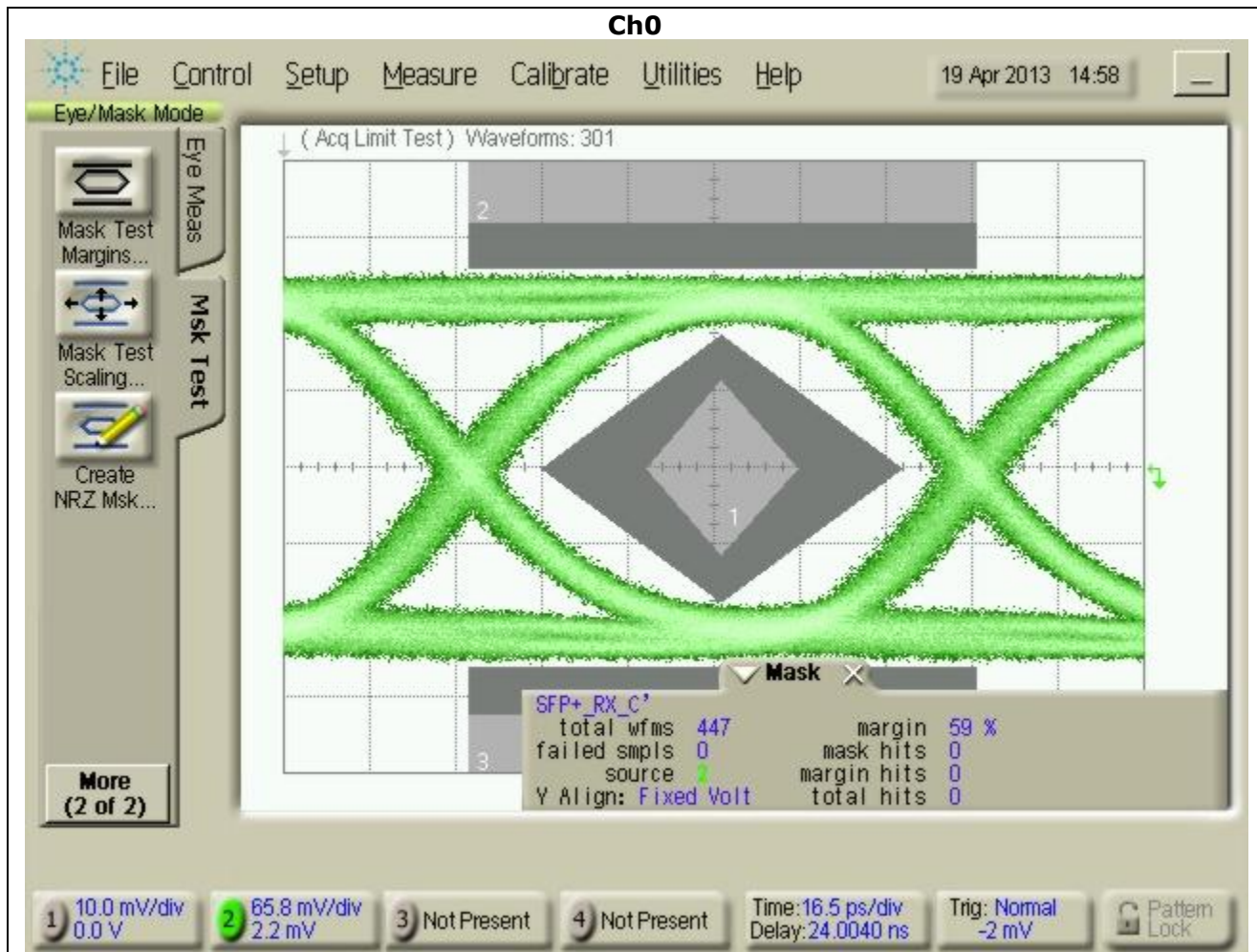
*all test at 10.3125Gb/s, PRBS31

*the length of the cable that been tested is 5M.

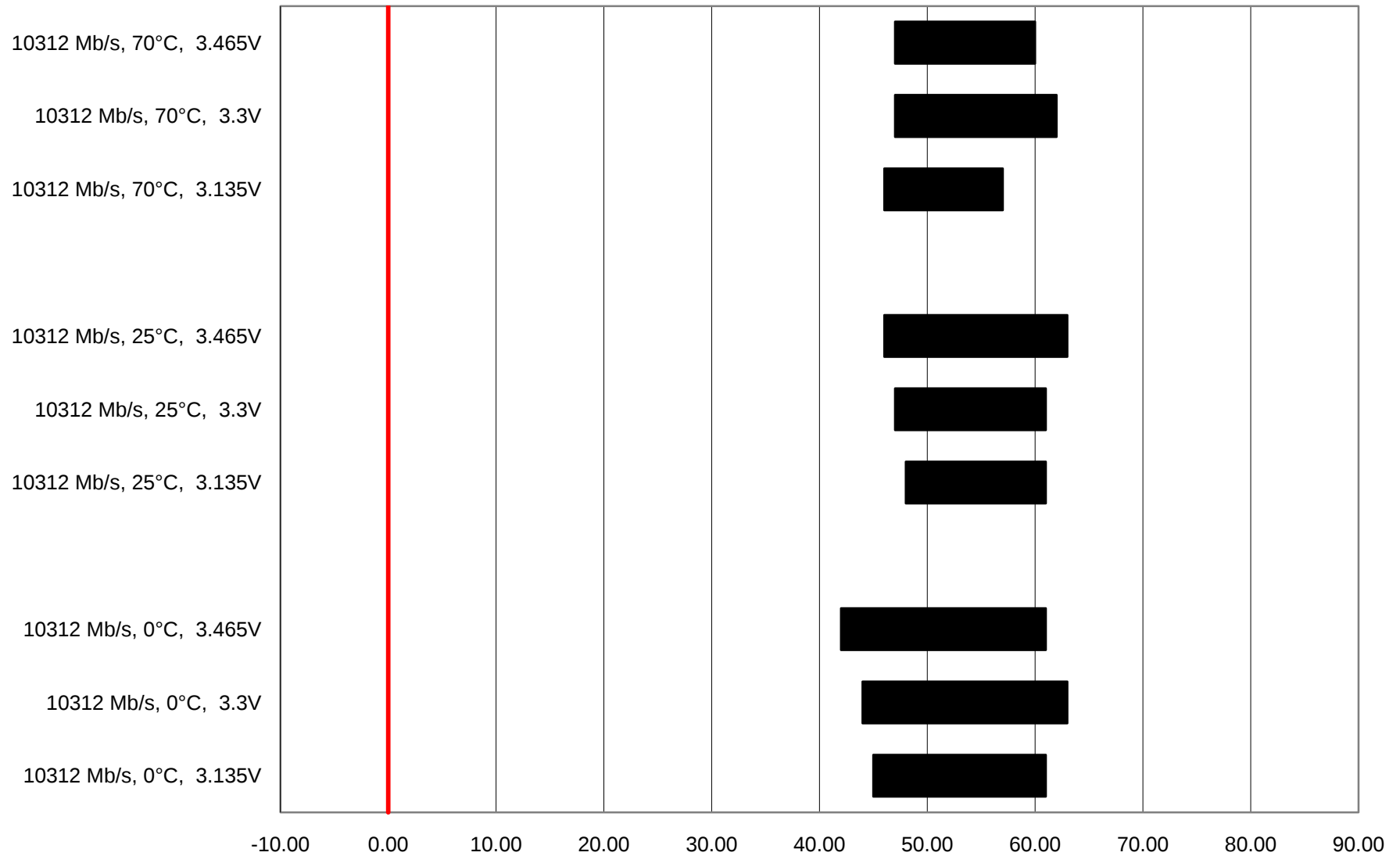
To verify compliance with specifications, 11cables were tested at 9corners (3.135V at 0°C , 3.135V at 25°C , 3.135V at 70°C , 3.3V at 0°C , 3.3V at 25°C , 3.3V at 70°C , 3.465V at 0°C , 3.465V at 25°C , 3.465V at 70°C), across one channel. The resulting test data is summarized in the following figures.

Figure 1.

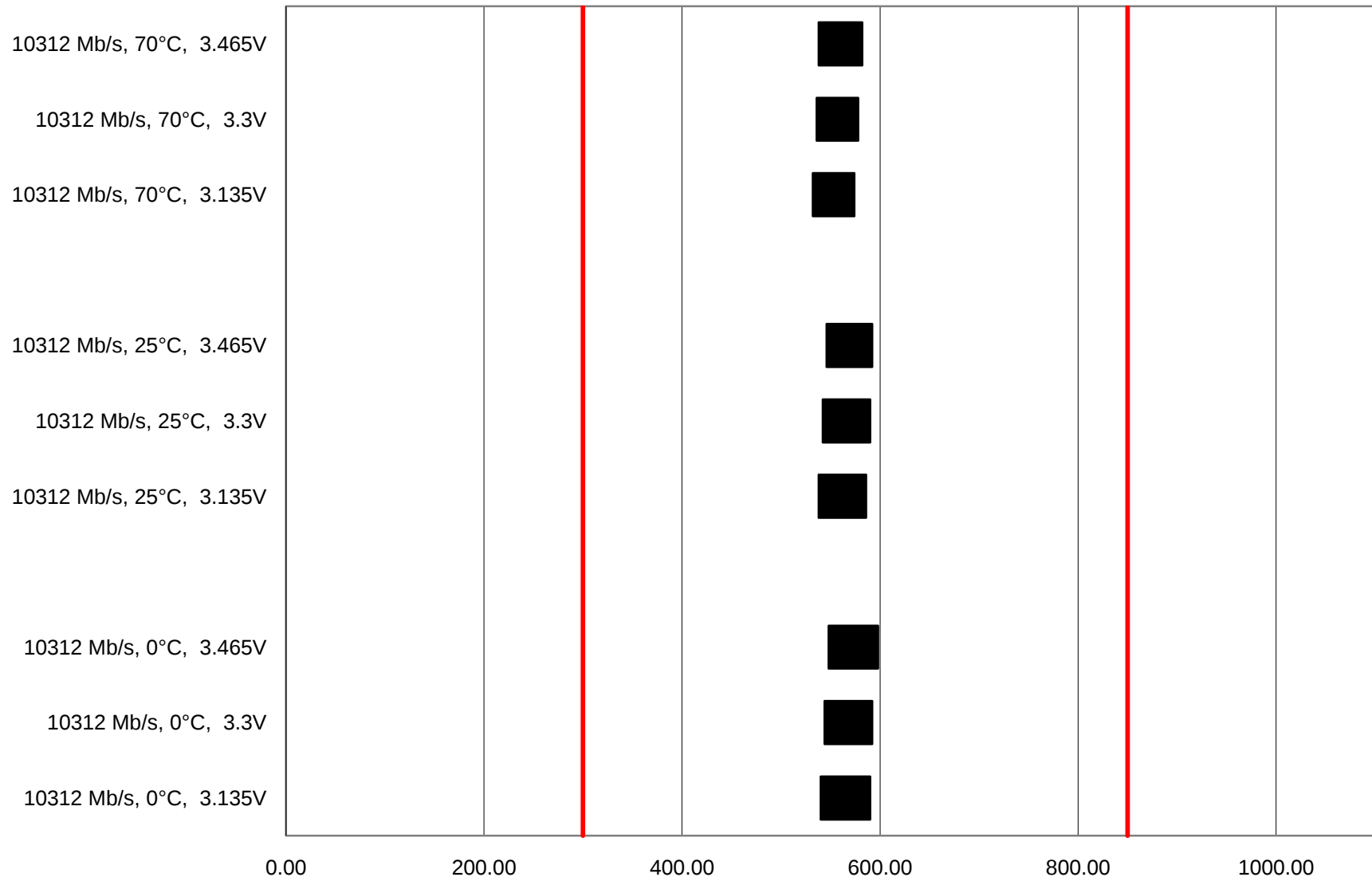
The cable is operating at $f = 10.3125$ Gb/s, PRBS $2^{31} - 1$, 3.3V. The traces show typical Rx eyes, at 25°C.



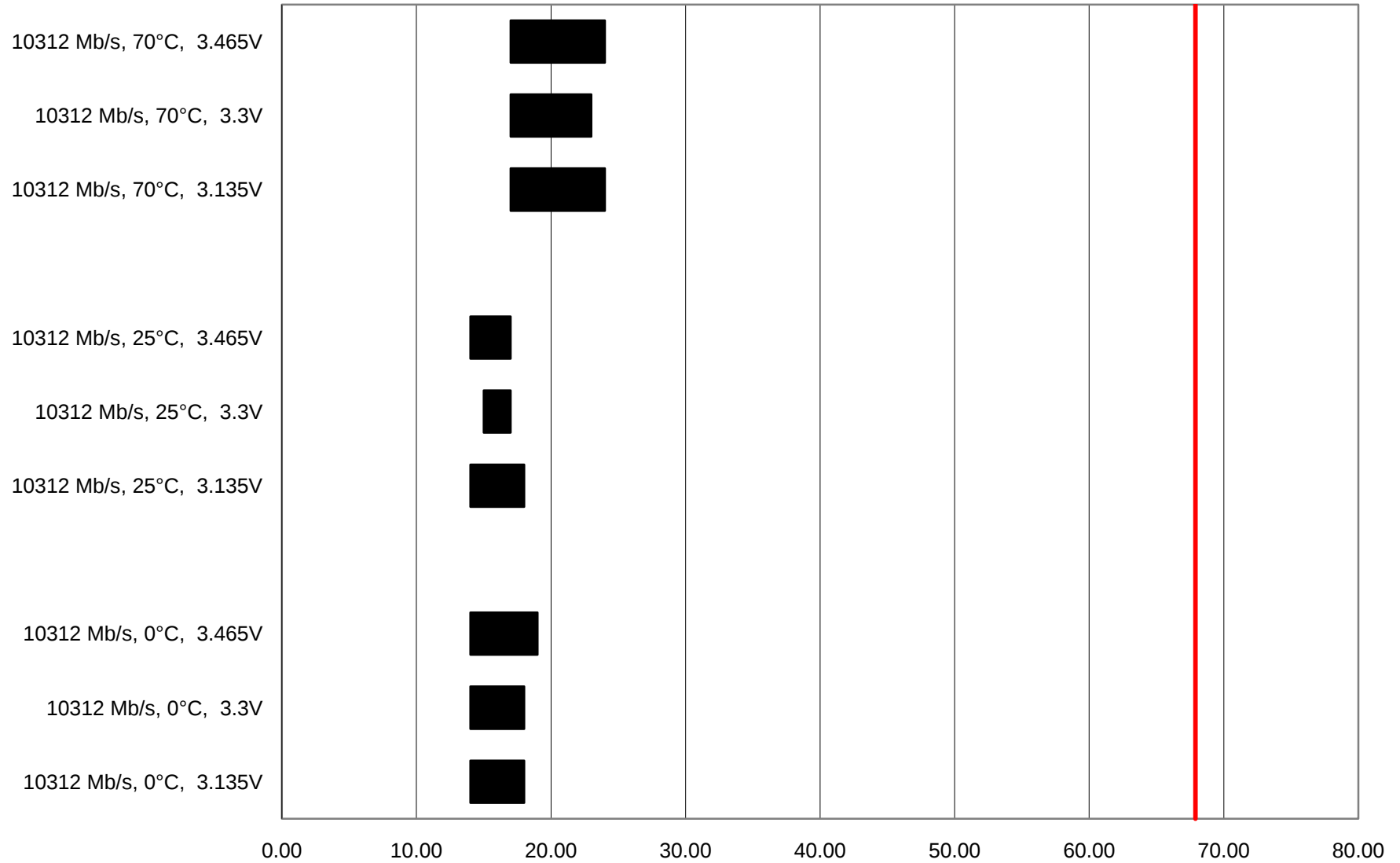
FCBG110SD1CXX Rx Mask Margin(%)



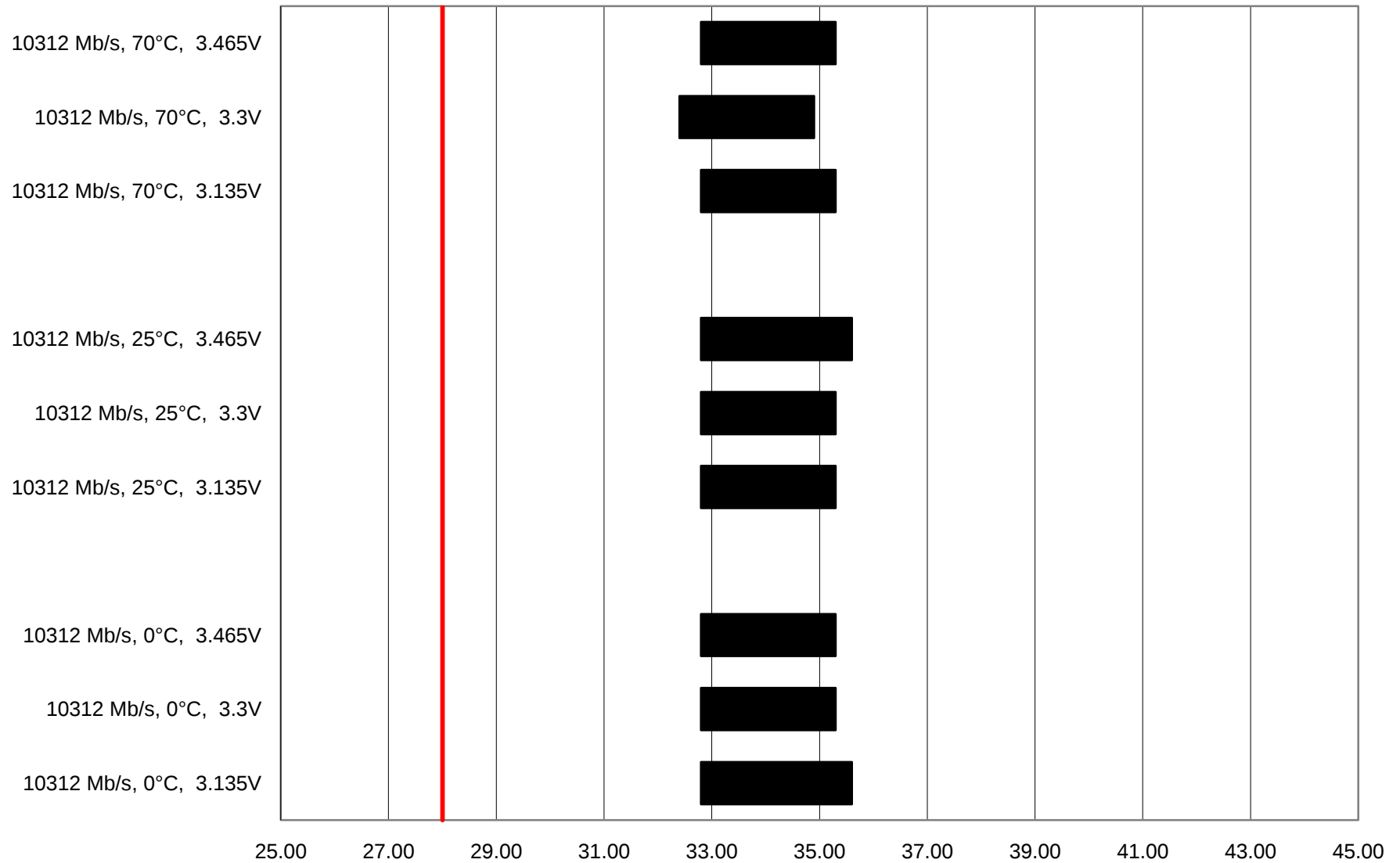
FCBG110SD1CXX Rx Eye Differential Amplitude(mV)



FCBG110SD1CXX Rx Jitter pp(ps)

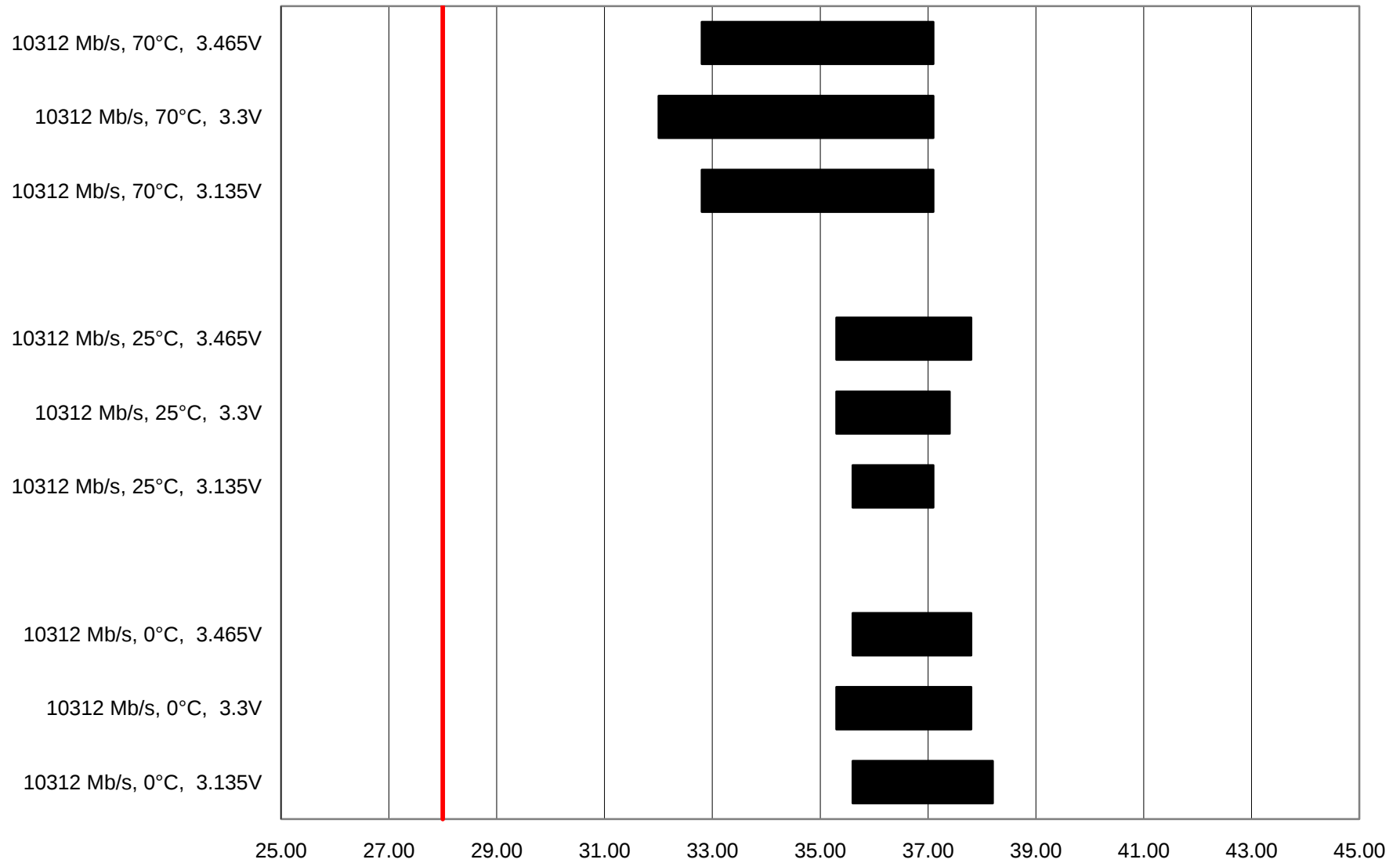


FCBG110SD1CXX Rx Rise Time(ps)



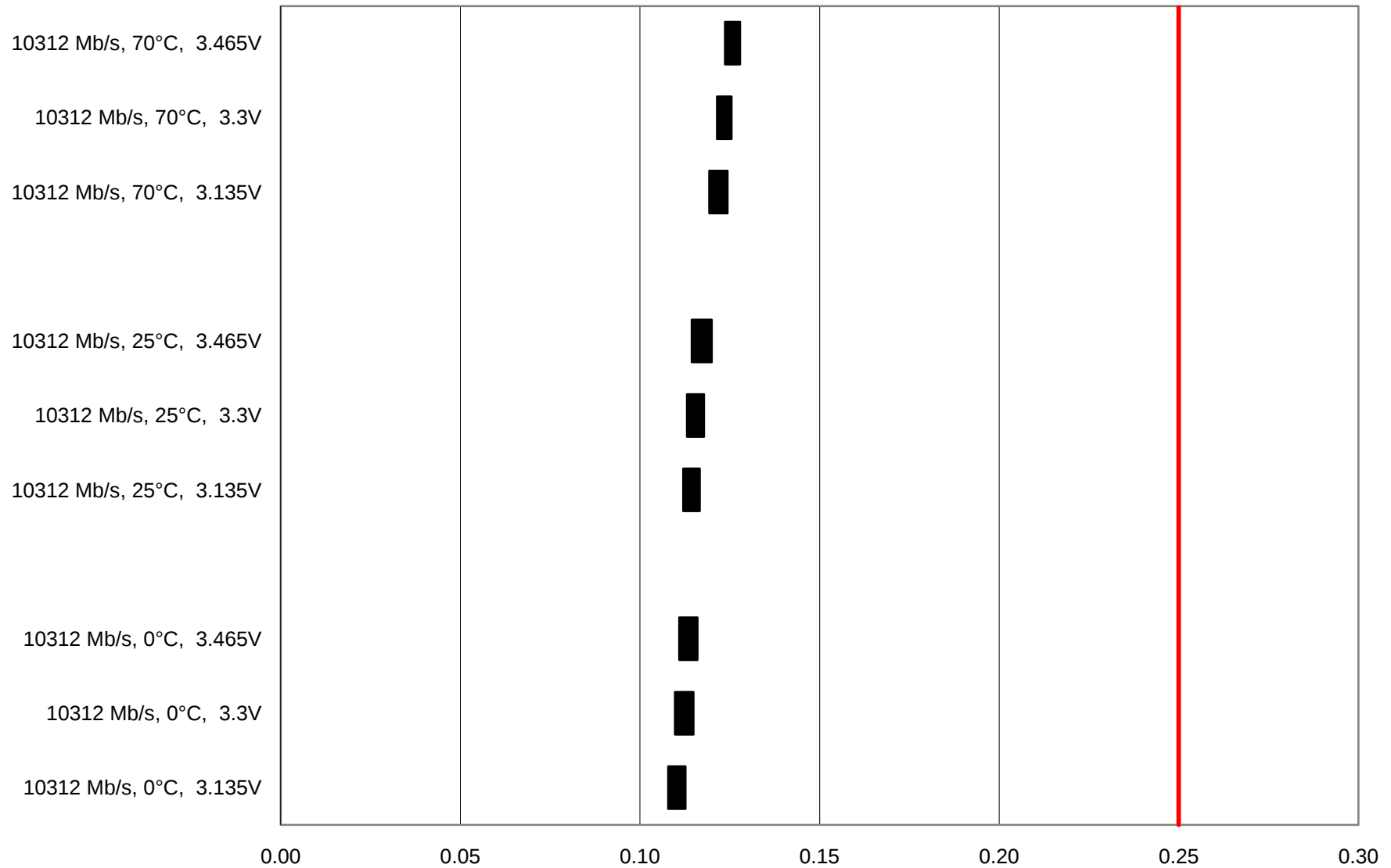
FCBG110SD1CXX

Rx Fall Time(ps)



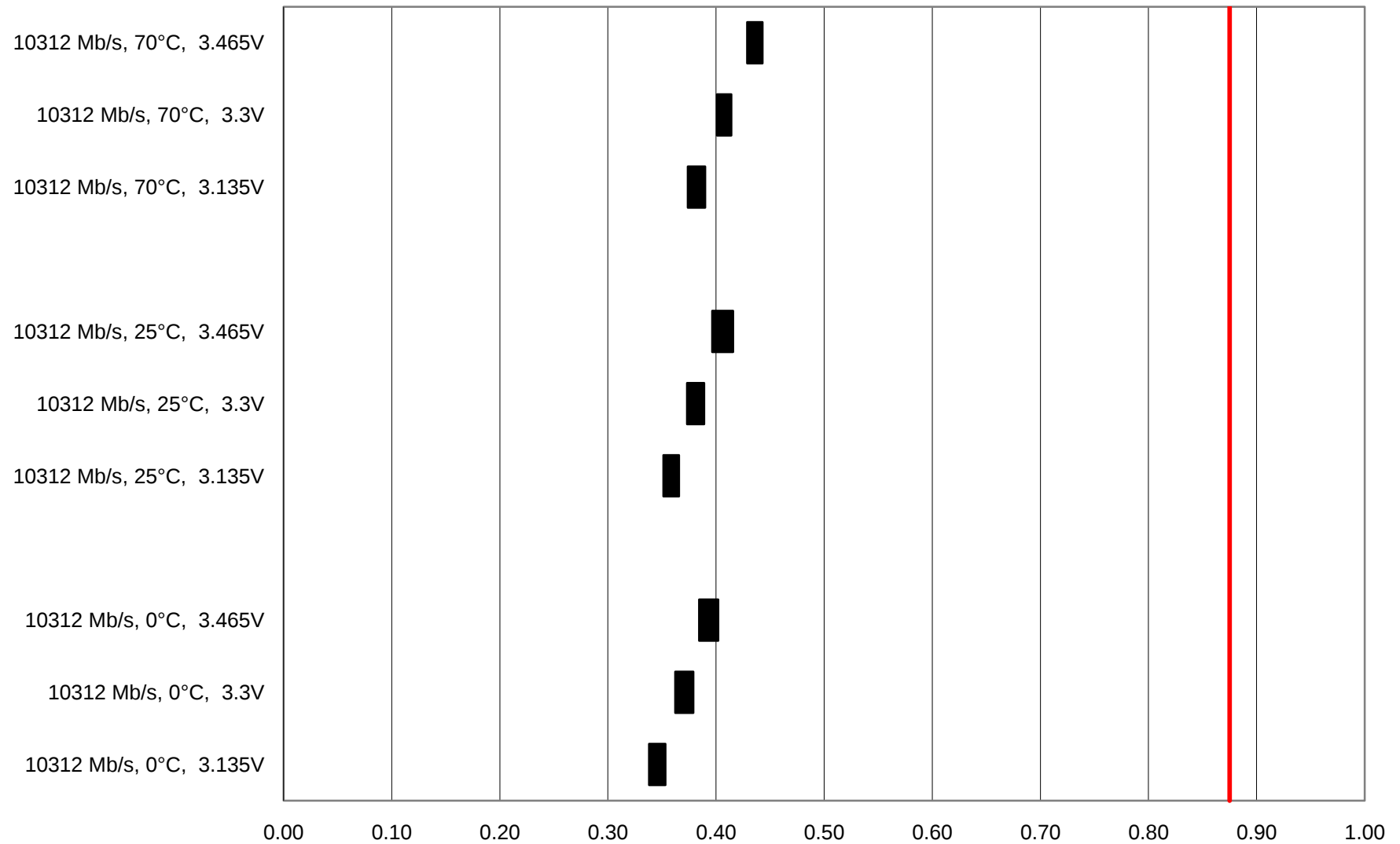
FCBG110SD1CXX

Module supply current(A)(single end)



FCBG110SD1CXX

Power consumption(W) (single end)



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