

**114.6.3.4 Receiver ~~corner~~boundary condition tests**

~~This subclause identifies~~The following ~~corner test~~boundary conditions tests to verify the receiver optical specifications defined in 114.6.3.3. A 1000BASE-RHx PHY shall be able to establish a reliable link as specified in 114.6.3.3 under ~~corner~~boundary conditions defined in 114.6.3.4.1 and 114.6.3.4.2.

**114.6.3.4.1 Receiver ~~sensitivity~~minimum AOP ~~corner~~ test**

This test ~~is oriented to~~operates the 1000BASE-RHx PHY receiver in ~~sensitivity~~minimum AOP conditions. ~~Conditions of the transmitter and the receiver as are~~ defined in Table 114–10a. For ~~the purpose of~~ this test, the responses of channel type I, type II, and type III are defined by the lower bound limits specified in Table 114–11, Table 114–12, and Table 114–13, respectively. Parameters of Table 114–9 and Table 114–10 not specified in Table 114–10a can take any value in the specification ranges.

**Table 114–10a—Parameters for receiver ~~sensitivity~~minimum AOP ~~corner~~ test**

Parameter		Symbol	Units	Value/Criteria			
				RHA	RHB	RHC	
				Fiber optic channel			
				Type I	Type I	Type II	Type III
Transmitter	Extinction ratio	ER	dB	11			
	Fall time (90% – 10%)	t <sub>f</sub>	ns	3			
	Overshoot	OS	%	0			
Receiver	Receive average optical power	AOP	dBm	-17	-17	-17	-18.5

**114.6.3.4.2 Receiver ~~saturation~~maximum AOP ~~corner~~ test**

This test ~~is oriented to~~operates a 1000BASE-RHx PHY receiver in ~~saturation~~maximum AOP conditions. ~~Conditions of the transmitter and the receiver as are~~ defined in Table 114–10b. The local receiver under test is connected to the remote transmitter by means of a plastic optical fiber ~~of 1 meter or less~~ consistent with ~~the~~ specifications of 114.7 ~~of at most 1 meter length~~. Parameters of Table 114–9 and Table 114–10 not specified in Table 114–10b can take any value in the specification ranges.

**Table 114–10b—Parameters for receiver ~~saturation~~maximum AOP ~~corner~~ test**

Parameter		Symbol	Units	Value/Criteria		
				RHA	RHB	RHC
Transmitter	Extinction ratio	ER	dB	15		
Receiver	Receive average optical power	AOP	dBm	1		
	Receiver reflectance	RR <sup>a</sup>	dB	-14		

<sup>a</sup> See 1.4 for definition of reflectance.

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