

IEEE 802.3ca 25G/50G EPON RX PMD Values

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Table 141-15/16, OLT Receive Characteristics

Parameter	25/50G EPON Proposed	References		
		EPON (Table 60-8/11)	10GEPON (Table 75-10)	100GBase-LR4/ER4 (Table 88-8)
Signal Detect Threshold, each Channel (Min) dBm	-45	-45	-45	N/a
Receiver Settling Time (Max) ns	1200ns	400	800	N/a
Stressed J2 Jitter (UI)	0.3	0.25 (Stressed Jitter)	0.3 (Stressed Jitter)	0.3
Stressed J9 Jitter (UI)	0.47	/	/	0.47

Other source for Settling time: NG-PON2: worst case: ~610.9ns, Objective ~128.6ns

Table 141-19/20, ONU Rx Characteristics

Parameter	25/50G EPON Proposed	References		
		EPON (Table 60-8/11)	10GEPON (Table 75-6)	100GBase-LR4/ER4 (Table 88-8)
Receiver Reflectance (max) dB	-12	-12	-12	N/a
Detect Threshold (Min, dBm)	-44	-44	-44	N/a
Stressed J2 Jitter (UI)	0.3	0.25 (Stressed Jitter)	0.3 (Stressed Jitter)	0.3
Stressed J9 Jitter (UI)	0.47	/	/	0.47