

10Gb/s 10Km CDR SFP+ 1310nm Transceivers

1310nm, 10Gb/s, 10km, CDR SFP+
SFP+ 1310nm, 10Gb/s, 10km, CDR SFP+
10km, CDR SFP+
SFP-8431, SFP-8432,
10GFC R 4.0, IEEE 802.3a 10GBASE-LR/LW,
T GR-253-CORE OC-192 SR-1 ITU-T
G.691 STM-64 I-64.1. T
CML IEEE 802.3a
a CML a a.D
a a a ab a a 2-
a , a SFP-8472.

S a

(T =-5 C 70 C a V = 3.14 3.46V)

Parameter	Symbol	Unit	Min	Typ	Max	Note
T a						
N a Wa			1290		1330	
S M S Ra	SMSR	B	30			
S a W (-20 B)	Δ				1	
O a O P	Pa	B	-6		-1	
E Ra	ER	B	6			
T a a D P a	TDP	B			1	1
A a La P OFF T a	POFF	B			-30	

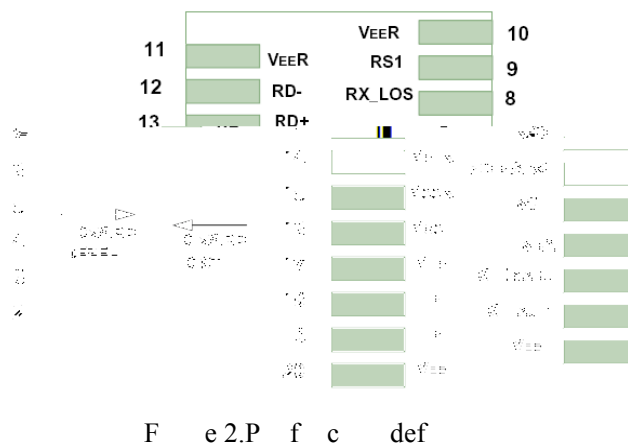
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Electric Ports Definition

[illegible]

Pin function definitions

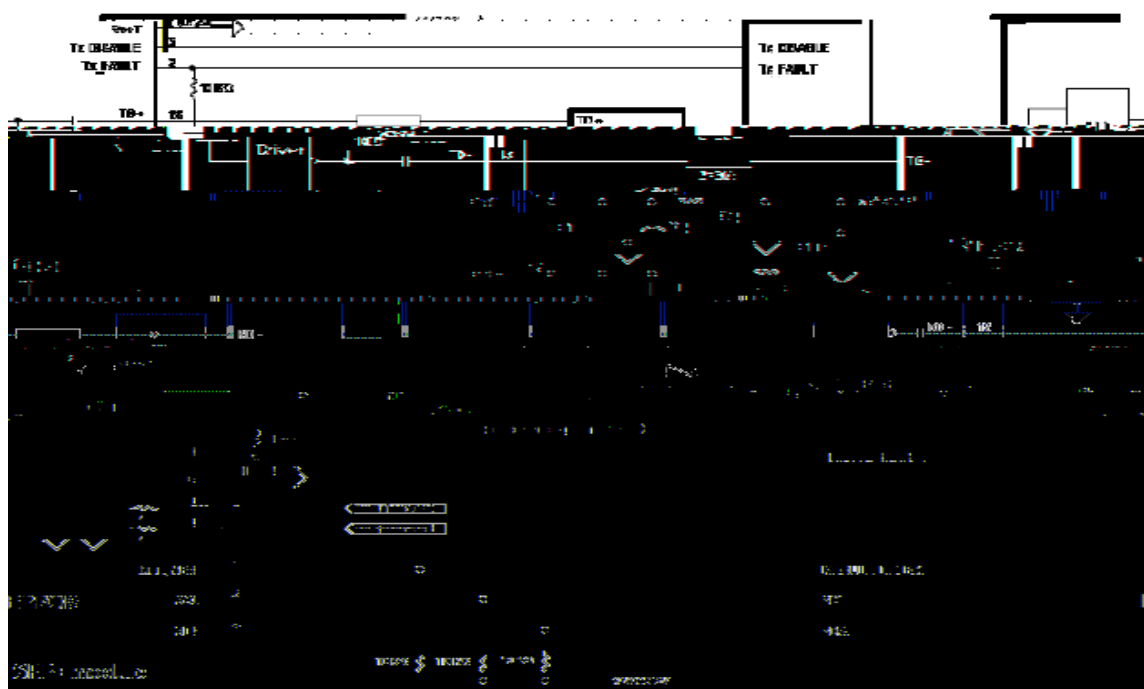


Pin N mbe	S mbol	Name			De c ip ion		
1,17,20	VeeT	T a	e S a G d	T e e b a d.	d be c	ec ed a d e	
2	TX Fa	T a	e Fa O (OC)	L c 1 O L c 0 O	=La e Fa (La e ff bef e _fa)	=N a O e a	

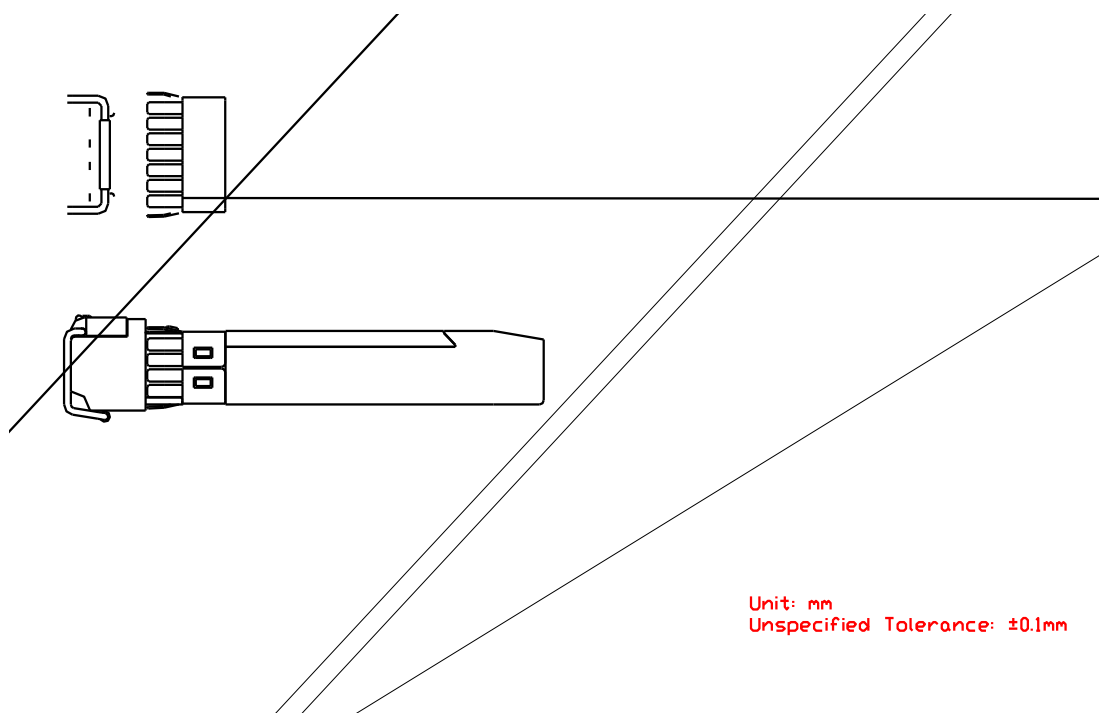
			T	e c ec c a b e, a d	d be ed
			H Vcc	a 10 ! e .	
3	TX D ab e	T a e D ab e I (LVTTL)	T e .	e a ed	VccT a 10 !
4	SDA		Se a ID	SFF 8472 D a c	
5	SCL	M d e Def Ide f e	M d e Def		d be ed H Vcc
6	MOD-ABS		10 ! e .		
7	RS0	Rece e Ra e Se ec (LVTTL)	T e e	a e a e a 30 ! -d	d. A
9	RS1	T a e Ra e Se ec (LVTTL)	a e e f e e		affec d e
8	LOS	L f S a O (OC)	S ff c e ca a f e a BER < 1 10 ⁻¹² = L c 0 I ff c e ca a f e a BER < 1 10 ⁻¹² = L c 1 T e c ec c a b e, a d d be ed H Vcc a 10 ! e .		
10,11,14	VeeR	Rece e S a G d	T e e b a d.	d be c ec ed a d e	
12	RD-	Rece e Ne a e DATA O (CML)	L e a AC c ed a d e e e .	= L c 0 O Rece e DATA a ed a 50!	
13	RD+	Rece e P e DATA O (CML)	L e a AC c ed a d e e e .	= L c 1 O Rece e DATA a ed a 50!	
15	VccR	Rece e P e S	T e f e	d be c ec ed e b a d. See F e 3.Rec e ded	+3.3V e
16	VccT	T a e P e S	T e f e	d be c ec ed e b a d. See F e 3.Rec e ded	+3.3V e
18	TD+	T a e P e DATA I (CML)	L c 1 I e a AC c ed a d e 100! e .	= L T a e DATA a ed a d ffe e a	
19	TD-	T a e Ne a e DATA I (CML)	L c 0 I e a AC c ed a d e 100! e .	= L T a e DATA a ed a d ffe e a	

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Typical Application Circuit



Package Outline



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Regulatory Compliance

Fea e	Te Me hod	Pe fo mance