

4

REVISION, AS SHOWN IN SW1 TABLE.

3

SCALE

NTS

SHEET

2

1 OF 2

22 MO X, CH	DE 2 – TX)	х	х	ON	ON		
CARE					I		
_					N1)		
EL CO	NFIG	SW1.1	SW1.2	SW1:3	N) SW1·4		
	RE	V 3 PCBs AN	ND HIGHER	01110	001.4		R
FAUL	T)	OFF	ON	OFF	OFF		D
	RE	V 2 PCBs A	ND OLDER				
FAUL	Τ)	OFF	OFF	OFF	OFF		
LD, I		HERS EXC	EPT IN A	CORDAN			
ECEI	VED FR	OM FOCA	LTECHNO	DLOGIES	CORPORA	TION.	
		TECUN					
		77	7 FRAZEE	AVENUE			
	D	ARTMOU	TH, NS CA	NADA, B3	3B 1Z4		А
TITLE							
	RF		07+ CC	ONFIGI	IRATIO	N	
SIZE	TYPE	DRAWING I	NO.			ISSUE	
B	SK		907-20	35-00		B	
-	•		-	·			

SW2 SET	TINGS (VID	EO AND DAT	FA FORMAT))
CONFIG.	SW2:1	SW2:2	SW2:3	SW2:4
POSITE JLT)	OFF	OFF	х	х
1, 2, 3 TE ON 4	ON	OFF	х	х
1, 2 3, 4	OFF	ON	х	х
I 1, 2, 3 TE ON 4	ON	ON	х	х
D CH2 FIMEOUT)	х	х	OFF	OFF
S485 EOUT)	х	х	ON	OFF
H2 RS485 EOUT) JLT)	х	х	OFF	ON
NODE CH2 – TX)	х	х	ON	ON

1		
DESCRIPTION	DATE	APPROVAL
JCTION ISSUE	2009-06	
CN 29818	2013-09	

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4

3

DEG. C

DEG. C

3

+60

+85

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PARAMETER	MIN	TYP	MAX	UNITS
ELECTRICAL				
POWER VOLTAGE ¹	4.5	5.0	5.5	VOLTS
POWER CURRENT ¹		0.7	1.0	AMPS
VIDEO				
INPUT LEVEL ²		1.0	1.2	Vp-p
INPUT IMPEDANCE ³		75		OHMS
BANDWIDTH			6.0	MHz
DIGITAL RESOLUTION		10		BITS
SIGNAL TO NOISE RATIO	58			dB
DIFFERENTIAL GAIN		1	3	%
DIFFERENTIAL PHASE		1	3	DEGREES
LUMINANCE NONLINEARITY		2	4	%
DATA				
RS485 DATA RATE ⁶			2.5	MBAUD
INTERNAL TERMINATION		120		OHMS
DIFF. OUTPUT LEVEL (270HM)	2.1		5	VOLTS
RS232 DATA RATE			120	KBAUD
RS232 OUTPUT SWING (3KOHM)	±5.0	±5.4		VOLTS
RS232 INPUT VOLTAGE RANGE	-15		+15	VOLTS
OPTICAL				
BAUD RATE		1200		MBAUD
WAVELENGTH ⁴	1271		1611	nm
OPTICAL BUDGET 4,5	24			dB
RANGE	10			Km

PART NUMBER	CARD ID	FIBER TYPE	TX NOMINAL WAVELENGTH (nm)	MIN. OPTICAL BUDGET (dB)	WDM	ACCESS BUSHING	TX TYPE
907-0025-00	907+R-SMD13	SMF	1310	24	NO	LC	DFB
907-0025-03	907+R-SMB13	SMF	1310	20	YES	LC	DFB BIDI
907-0025-27	907+R-SMD27	SMF	1271	24	NO	LC	DFB CWDM
907-0025-47	907+R-SMD47	SMF	1471	24	NO	LC	DFB CWDM
907-0025-51	907+R-SMD51	SMF	1511	24	NO	LC	DFB CWDM
907-0025-55	907+R-SMD55	SMF	1551	24	NO	LC	DFB CWDM
907-0025-59	907+R-SMD59	SMF	1591	24	NO	LC	DFB CWDM

NOTE: BIDI STANDS FOR BIDIRECTIONAL, MEANING WDM IS BUILT INTO THE OPTICAL TRANSCEIVER.



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SPECIFICATION NOTES:

TEMPERATURE (OPERATIONAL)

TEMPERATURE (STORAGE)

1. INPUT POWER IS PROTECTED WITH A 2A FUSE. THE INPUT ALSO HAS REVERSE POLARITY PROTECTION AND OVER-VOLTAGE PROTECTION. CURRENT DRAW INCLUDES SFP MODULE.

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-40

2. ABSOLUTE MAXIMUM VIDEO INPUT SHOULD NOT EXCEED 3 Vp-p.

3. VIDEO INPUTS ARE AC-COUPLED WITH ESD PROTECTION.

4. CONTACT FOCAL FOR OTHER OPTICAL CONFIGURATIONS, SUCH AS CWDM WAVELENGTHS AND HIGHER OPTICAL BUDGETS.

5. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. VIDEO SPECIFICATIONS SHOWN ARE FOR 10-BIT MODE AND OPTICAL POWER SPECIFICATIONS ARE WITH STANDARD (NON-BIDI) OPTICAL TRANSCEIVERS.

6. THE MAXIMUM BAUD RATE IS DETERMINED BY HOW MUCH JITTER THE END EQUIPMENT CAN TOLERATE, THE IMPEDANCE OF THE CABLE USED AND THE TIMEOUT SETTING. THE MUX/DEMUX SAMPLE RATE OF THE RS485 CHANNELS IS 15MHz. TO ACHIEVE MAX BAUD RATE THE TWISTED CABLE NEEDS TO HAVE AN IMPEDANCE OF 120 OHMS AND THE TIMEOUT SETTING NEEDS TO BE 1MILLISECOND. WHEN USING ZERO TIMEOUT SETTING THE MAXIMUM BAUD RATE IS 120KBAUD.

					В
TOLERANCES (EXCEPT AS NOTED) 1. DIMENSIONS IN INCHES 2. 3 DECIMAL PLACES +/- 0.005	THIS DRAWING IS THE PRO AND MAY BE NEITHER COP ITS CONTENTS COMMUNIC WRITTEN INSTRUCTIONS F	OPERT PIED, F CATED RECEI	TY OF F REPROI 0 TO OT VED FF	OCAL TECHNOLOGIES CORPORATIO DUCED, OR OTHERWISE DEALT WIT HERS EXCEPT IN ACCORDANCE WI ROM FOCAL TECHNOLOGIES CORPO	ON 'H NOR TH DRATION.
 2 DECIMAL PLACES +/- 0.010 4. FRACTIONS +/- 1/32 5. ANGLES +/- 0.5 DEGREE 	DRAWN A CRESS	-	FOCA	L TECHNOLOGIES CORPORA 77 FRAZEE AVENUE	TION
ESD SENSITIVE PARTS	CHECKED	DARTMOUTH, NS CANADA, B3B 1Z4			
PRECAUTIONS.	APPROVED	TITLE	_		
MATERIAL N/A	DATE 2007-08-15	-	REN	NOTE 907+ CONFIGURATI	ON
FINISH N/A	FILENAME 907-2035-00RB.DES	SIZE	TYPE	DRAWING NO.	ISSUE
SCALE NTS	SHEET 2 OF 2	B	SK	907-2035-00	B
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