

4				3				2				1				
D	SPECIFICATIONS															
	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					
C	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 (27OHM)				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						
B	OPTICAL															
	BAUD RATE						1200				MBAUD					
	WAVELENGTH ⁴				1271				1611		nm					
	OPTICAL BUDGET ^{4,5}				24						dB					
	RANGE				10						Km					
	ENVIROMENTAL															
	TEMPERATURE (OPERATIONAL)				-10				+60		DEG. C					
	TEMPERATURE (STORAGE)				-40				+85		DEG. C					
A	SPECIFICATION NOTES:															
	1. INPUT POWER IS PROTECTED WITH A 2A FUSE. THE INPUT ALSO HAS REVERSE POLARITY PROTECTION AND OVER-VOLTAGE PROTECTION (UP TO 20V). CURRENT DRAW INCLUDES SFP MODULE.															
	2. ABSOLUTE MAXIMUM VIDEO INPUT SHOULD NOT EXCEED 3 Vp-p.															
	3. VIDEO INPUTS, INCLUDING NON-VIDEO, ARE AC-COUPLED WITH ESD PROTECTION. THE VIDEO SPECIFICATIONS FOR INPUT LEVEL, IMPEDANCE, BANDWIDTH AND RESOLUTION ALSO APPLY IN NON-VIDEO MODE.															
	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.															
4				3				2				1				

ORDER INFORMATION							
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.

TOLERANCES (EXCEPT AS NOTED)		THIS DRAWING IS THE PROPERTY OF FOCAL TECHNOLOGIES CORPORATION AND MAY BE NEITHER COPIED, REPRODUCED, OR OTHERWISE DEALT WITH NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM FOCAL TECHNOLOGIES CORPORATION.					
 ESD SENSITIVE PARTS MAY BE USED. TAKE PRECAUTIONS.		DRAWN A CRESS		FOCAL TECHNOLOGIES CORPORATION 77 FRAZEE AVENUE DARTMOUTH, NS CANADA, B3B 1Z4			
		CHECKED					
		APPROVED					
MATERIAL N/A		DATE 2007-08-15		REMOTE 907+ CONFIGURATION			
FINISH N/A		FILENAME 907-2035-00RC.DES					
SCALE NTS		SHEET 2 OF 2					
		SIZE B	TYPE SK	DRAWING NO. 907-2035-00			ISSUE C

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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

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TOLERANCES (EXCEPT AS NOTED) 1. DIMENSIONS IN INCHES 2. 3 DECIMAL PLACES +/- 0.005 3. 2 DECIMAL PLACES +/- 0.010 4. FRACTIONS +/- 1/32 5. ANGLES +/- 0.5 DEGREE		THIS DRAWING IS THE PROPERTY OF FOCAL TECHNOLOGIES CORPORATION AND MAY BE NEITHER COPIED, REPRODUCED, OR OTHERWISE DEALT WITH NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM FOCAL TECHNOLOGIES CORPORATION.						
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