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QD	FC	IFI	CA <sup>-</sup>	$\Gamma$	NC
ЭF	ᆫ	ΙГΙ	LA		IVO

	SPECIFICATIONS				
PARAMETER	MIN	TYP	MAX	UNITS	
ELECTRICAL					
POWER VOLTAGE <sup>1</sup>	4.5	5.0	5.5	VOLTS	
POWER CURRENT 1		0.7	1.0	AMPS	
VIDEO					
OUTPUT LEVEL		1.0	1.2	Vp-p	
OUTPUT IMPEDANCE 2		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 RATE⁵			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 (NOMINAL) 3	1271		1611	nm	
OPTICAL BUDGET 3,4	24			dB	
RANGE	10			Km	
ENVIROMENTAL					
TEMPERATURE (OPERATIONAL)	-10		+60	DEG. C	
TEMPERATURE (STORAGE)	-40		+85	DEG. C	

## **SPECIFICATION NOTES:**

- 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.
- 2. VIDEO OUTPUTS ARE AC-COUPLED WITH ESD PROTECTION.
- 3. CONTACT FOCAL FOR OTHER OPTICAL CONFIGURATIONS, SUCH AS CWDM WAVELENGTHS AND HIGHER OPTICAL BUDGETS).
- 4. 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.
- 5. 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.

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## **ORDER INFORMATION**

ONDER IN ORMATION							
PART NUMBER	CARD ID	FIBER TYPE	TX NOMINAL WAVELENGTH (nm)	MIN. OPTICAL BUDGET	WDM	ACCESS BUSHING	TX TYPE
				(dB)			
907-0026-00	907+C-SMD15	SMF	1550	24	NO	LC	DFB
907-0026-03	907+C-SMB15	SMF	1550	20	YES	LC	DFB BIDI
907-0026-29	907+C-SMD29	SMF	1291	24	NO	LC	DFB-CWDM
907-0026-31	907+C-SMD31	SMF	1311	24	NO	LC	DFB-CWDM
907-0026-49	907+C-SMD49	SMF	1491	24	NO	LC	DFB-CWDM
907-0026-53	907+C-SMD53	SMF	1531	24	NO	LC	DFB-CWDM
907-0026-57	907+C-SMD57	SMF	1571	24	NO	LC	DFB-CWDM
907-0026-61	907+C-SMD61	SMF	1611	24	NO	LC	DFB-CWDM

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



TOLERANCES (EXCEPT AS NOTED)  1. DIMENSIONS IN INCHES 2. 3 DECIMAL PLACES +/- 0.005	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.				
3. 2 DECIMAL PLACES +/- 0.010 4. FRACTIONS +/- 1/32 5. ANGLES +/- 0.5 DEGREE	DRAWN A CRESS	FOCAL TECHNOLOGIES CORPORATION 77 FRAZEE AVENUE			
ESD SENSITIVE PARTS	CHECKED	DARTMOUTH, NS CANADA, B3B 1Z4			
MAY BE USED. TAKE PRECAUTIONS.	APPROVED	CONSOLE 907+ CONFIGURATION			
MATERIAL N/A	DATE 2007-08-15	CONSOLE 907+ CONFIGURATION			
FINISH N/A	FILENAME 907-2036-00RC.DES	SIZE TYPE DRAWING NO. ISSUE 907-2036-00			
SCALE NTS	SHEET 2 OF 2	B SK 907-2036-00 C			
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