

FIGURE #1 - LIGHT/MEDIUM DUTY PACKAGE

WAVELENGTH DIVISION MULTIPLEXER SPECIFICATIONS

TYPE/GRADE	PREMIUM	HIGH-ISOLATION	WIDEBAND	FTTX
CENTER WAVELENGTH (nm)	1310/1550	1310/1550	1260-1360	1260-1500
AND/OR WAVELENGTH RANGE (nm)	± 10	± 15	1460-1620	1540-1565
INSERTION LOSS (dB) (NOTE 1)	<0.4	<0.8	<0.8	<1.0
ISOLATION (dB)	>17	>34	>45	>45
POLARIZATION DEPENDANT LOSS (dB)	<0.1	<0.1	<0.1	<0.1
DIRECTIVITY (dB)	>60	>60	>55	>55
RETURN LOSS (dB)	>65	>65	>55	>50
OPERATING TEMPERATURE (°C)	-40 TO +85	-40 TO +85	0 TO +65	0 TO +65
STORAGE TEMPERATURE (°C)	-40 TO +85	-40 TO +85	-40 TO +85	-40 TO +85

PACKAGING	FIBER JACKET	PREMIUM	HIGH ISOLATION	WIDEBAND	FTTX
LIGHT DUTY	250 μm	FIGURE 1	N/A	N/A	N/A
MEDIUM DUTY	900 μm	FIGURE 1	N/A	N/A	N/A
HEAVY DUTY	3 mm	FIGURE 2A	FIGURE 3	FIGURE 2B	FIGURE 2B
MODULES (NOTE 2)	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS

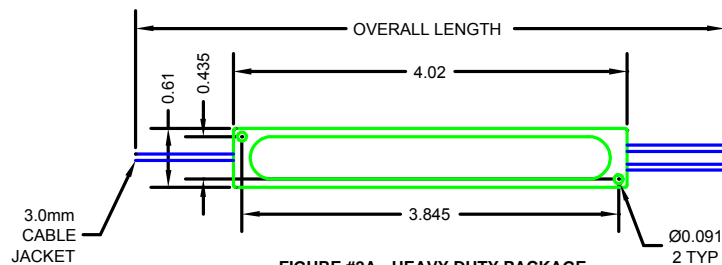


FIGURE #2A - HEAVY DUTY PACKAGE FOR PREMIUM WDM

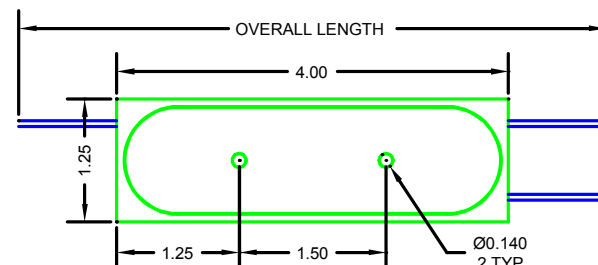


FIGURE #2B - HEAVY DUTY PACKAGE FOR WIDEBAND/FTTX WDM

SINGLEMODE FUSED WAVELENGTH DIVISION MULTIPLEXER

F X X X X X X X X X X X X X X F = FIBERDYNE LABS  
2 3 4 5 6 7 8 9 10 11 12 13

2ND DIGIT	GRADE	P - PREMIUM H - HIGH ISOLATION (NOTE 3)
3RD DIGIT	TYPE	A - FUSED BI-CONICAL TAPER
4TH DIGIT	PACKAGE (SEE PACKAGING TABLE)	L - LIGHT DUTY M - MEDIUM DUTY H - HEAVY DUTY
5TH DIGIT	FIBER TYPE	S - SINGLEMODE
6TH & 7TH DIGITS	CONFIGURATION	12 - 1X2
8TH & 9TH DIGITS	CENTER WAVELENGTH #1	13 - 1310 nm
10TH & 11TH DIGITS	CENTER WAVELENGTH #2	15 - 1550 nm
12TH DIGIT	CONNECTOR TYPE	0 - NONE 1 - ST/UPC 7 - FC/UPC A - FC/APC 6 - SC/UPC B - SC/APC
13TH DIGIT	RESERVED	0 - RESERVED
14TH DIGIT	OVERALL LENGTH (NOTE 4)	SPECIFY (1 OR 2 TYP)
15TH DIGIT	LENGTH UNIT	M - METER F - FEET

WAVELENGTH DIVISION MULTIPLEXER MODULES

FW X X - X X X X X - X X FW = FIBERDYNE LABS WAVELENGTH DIVISION MULTIPLEXER  
3 4 5 6 7 8 9 10 11

3RD DIGIT	WDM TYPE	1 - PREMIUM 1310/1550 2 - HIGH ISOLATION 1310/1550 3 - WIDEBAND 4 - FTTX
4TH DIGIT	PORTS	1 - ONE (1) 1X2 2 - DUAL (2) 1X2 3 - TRIPLE (3) 1X2
5TH DIGIT	PACKAGE	0 - LUCENT/FIBERDYNE COMPATIBLE WITH INPUT PIGTAIL, OUTPUT ADAPTERS 1 - LUCENT/FIBERDYNE COMPATIBLE WITH INPUT ADAPTERS, OUTPUT ADAPTERS 2 - LUCENT/FIBERDYNE COMPATIBLE WITH INPUT PIGTAIL, OUTPUT PIGTAIL 3 - SIECOR FDC COMPATIBLE WITH INPUT PIGTAIL, OUTPUT ADAPTERS 4 - SIECOR COMPATIBLE WITH INPUT ADAPTERS, OUTPUT ADAPTERS 5 - SIECOR COMPATIBLE WITH INPUT PIGTAIL, OUTPUT PIGTAIL 6 - SIECOR REDUCED FUSION SPLICE TRAY COMPATIBLE WITH INPUT PIGTAIL, OUTPUT PIGTAIL 7 - 19" RACKMOUNT MODULE 8 - CUSTOMER REQUESTED SPECIAL 9 - WALL MOUNT MODULE A - ADC MODULE B - LUCENT WITH REAR ENTRY C - SIECOR ECLIPSE COMPATIBLE WITH INPUT ADAPTERS, OUTPUT ADAPTERS D - HEAVY DUTY, 3mm
6TH DIGIT	GRADE	1 - ULTRA
7TH DIGIT	FIBER TYPE	0 - CORNING SMF 28
8TH DIGIT	CONNECTOR TYPE (INPUT)	0 - NONE 1 - FC 2 - FC/APC 3 - SC 4 - SC/APC 5 - ST 6 - D4 7 - OTHER (SPECIFY)
9TH DIGIT	CONNECTOR TYPE (OUTPUT)	0 - NONE 1 - FC 2 - FC/APC 3 - SC 4 - SC/APC 5 - ST 6 - D4 7 - OTHER (SPECIFY)
10TH DIGIT	LENGTH (INPUT)	0 - ADAPTER 1 - 1 METER 2 - 2 METERS 3 - 3 METERS 4 - 4 METERS 5 - 5 METERS
11TH DIGIT	LENGTH (OUTPUT)	0 - ADAPTER 1 - 1 METER 2 - 2 METERS 3 - 3 METERS 4 - 4 METERS 5 - 5 METERS

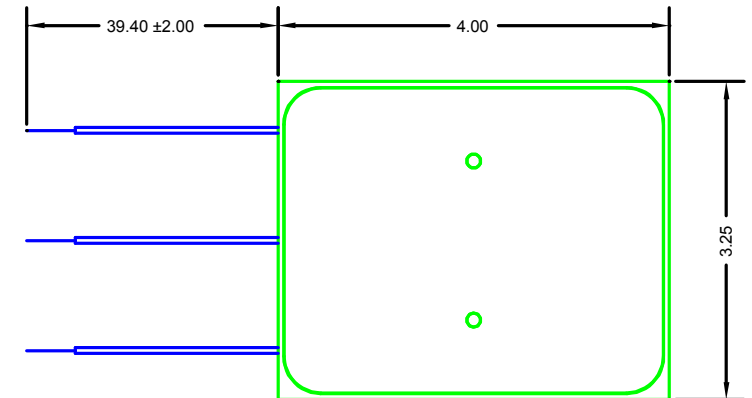


FIGURE #3 - HEAVY DUTY PACKAGE FOR HIGH ISOLATION WDM

NOTES:  
(1) INSERTION LOSS VALUES DO NOT INCLUDE CONNECTOR LOSS  
(2) SEE WWW.FIBERDYNE.COM FOR CONFIGURATIONS  
(3) HIGH ISOLATION FUSED WDM AVAILABLE ONLY IN HEAVY DUTY PACKAGE OR IN MODULES  
(4) OVERALL LENGTH TOLERANCE: <3 METER +/- 4 INCHES  
3+ METER +/- 6 INCHES

THIRD ANGLE PROJECTION

SHEET SIZE

**B**

**FIBERDYNE CONFIDENTIAL**  
UNLESS OTHERWISE SPECIFIED:  
ALL DIMENSIONS IN INCHES  
TOLERANCES:  
0.X = ±0.05  
0.0X = ±0.015  
0.XXX = ±0.005  
ANG. = ±0.5°  
REMOVE ALL BURRS AND SHARP CORNERS 0.01R

**FIBERDYNE LABS, INC** FRANKFORT, NY 13340 800-894-9694

NAME WAVELENGTH DIVISION MULTIPLEXER SPEC

DWG BY M. STREETER DWG # 200-10574-001

DATE 04-01-03 SCALE HALF SHEET 01 OF 01

REVISIONS			
REV	DESCRIPTION	DATE	BY
(A)	ECR #05228-02	08-16-05	MFS
(B)	ECR #07025-01	01-25-07	MFS