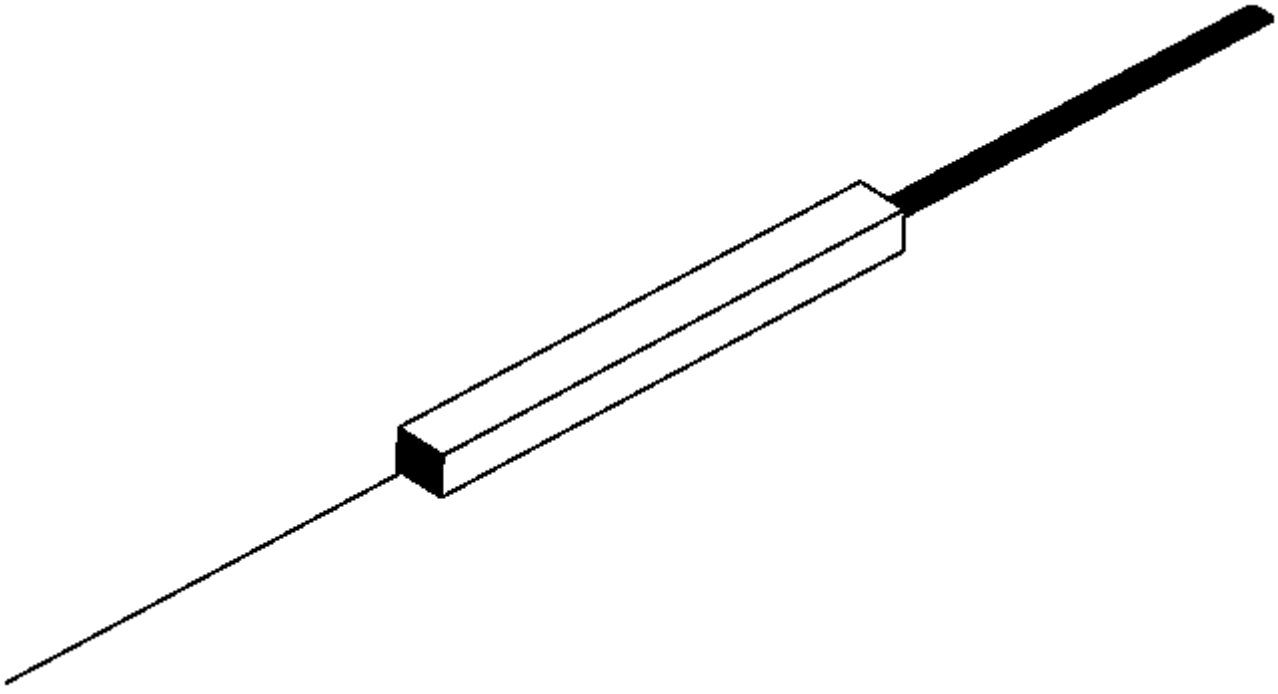
Wooriro Splitter Module

WOORIRO 1XN SPLITTER MODULE WITH CONNECTOR

SPECIFICATIONS



Contents

General Description

This specification covers the requirement of splitter module.

Operating Conditions

Parameter	*Unit*	*Specifications*
Operating Temperature	°C	- 40 ~ + 85
Wavelength Range	nm	1260 ~ 1630
Maximum Input Power	mW	500

Table 1. Operating Conditions

Inspection

Inspection sheet shall be an appended to products when they are delivered.

It shall contain the following items.

(*) Test report shall be submitted in papers and in electronic media.

Parameter	*Condition*	*Unit*	*Specifications (with connectors)*									
			1 x 2	*1 X 3*	*1 X 4*	*1 X 6*	*1 X 8*	*1 x 12*	*1 X 16*	*1 X 24*	*1 x 32*	*1 x 64*
Insertion loss	All ports @1.31,1.55 um	dB	≤ 4.0	≤ 6.8	≤ 7.4	≤ 10.2	≤ 10.9	≤ 13.2	≤ 14.1	≤ 16.4	≤ 17.4	≤ 22.2
Uniformity of I.L	@1.31, 1.55um	dB	≤ 0.6	≤ 0.6	≤ 0.8	≤ 0.8	≤ 1.0	≤ 1.0	≤ 1.4	≤ 1.5	≤ 1.6	≤ 2.5
PDL	All ports @1.31, 1.55um	dB	≤ 0.2	≤ 0.2	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
Return loss	All ports @1.31, 1.55um	dB	≥ 55									
Appearance			i.e. by indication of `passed`									

Table 2. Inspection

Structure

Dimensional Parameter

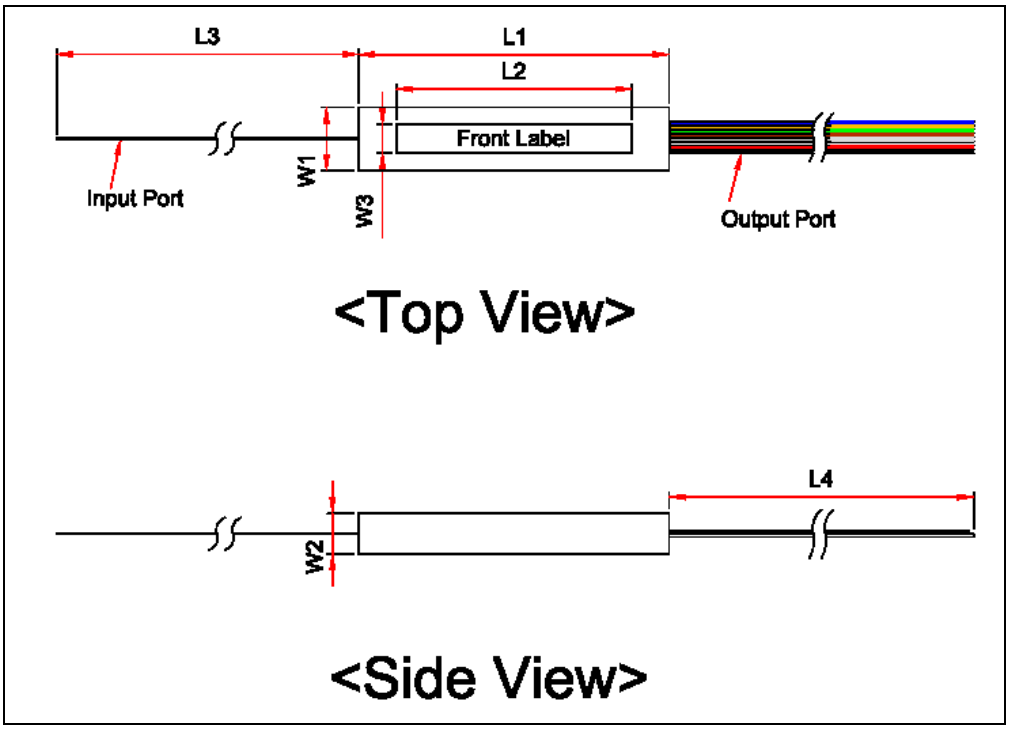


Figure 1. Dimensional Parameter

Parameter	*Description*	*Tolerance*	*1x2_250*	*1x3_250*	*1x4_250*	*1x6_127*	*1x6_250*	*1x8_127*
L1 (mm)	Module length	±1.0	40	40	40	40	40	40
L2 (mm)	Front label length	±0.5	35	35	35	35	35	35
L3 (m)	Input fiber length	+1.0, -0	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]
L4 (m)	Output fiber length	+1.0, -0	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]
W1 (mm)	Module width (Top view)	±0.1	4	4	4	4	4	4
W2 (mm)	Module width (Side view)	±0.1	4	4	4	4	4	4
W3 (mm)	Front label width	±0.5	2	2	2	2	2	2

1) XX = Customized

Table 3. Dimensional Parameter (1 x N module)

Parameter	*Description*	*Tolerance*	*1x8_250*	*1x12_127*	*1x16_127*	*1x24_127*	*1x32_127*	*1x64_127*
L1 (mm)	Module length	±1.0	40	40	40	55	55	55
L2 (mm)	Front label length	±0.5	35	35	35	44	44	44
L3 (m)	Input fiber length	+1.0, -0	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]
L4 (m)	Output fiber length	+1.0, -0	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]	1 or XX[1)]
W1 (mm)	Module width (Top view)	±0.1	4	4	4	7	7	12
W2 (mm)	Module width (Side view)	±0.1	4	4	4	4	4	4
W3 (mm)	Front label width	±0.5	2	2	2	5	5	5

1) XX = Customized

Table 4. Dimensional Parameter (1 x N module)

Dimensional Parameter with fan-out and connector

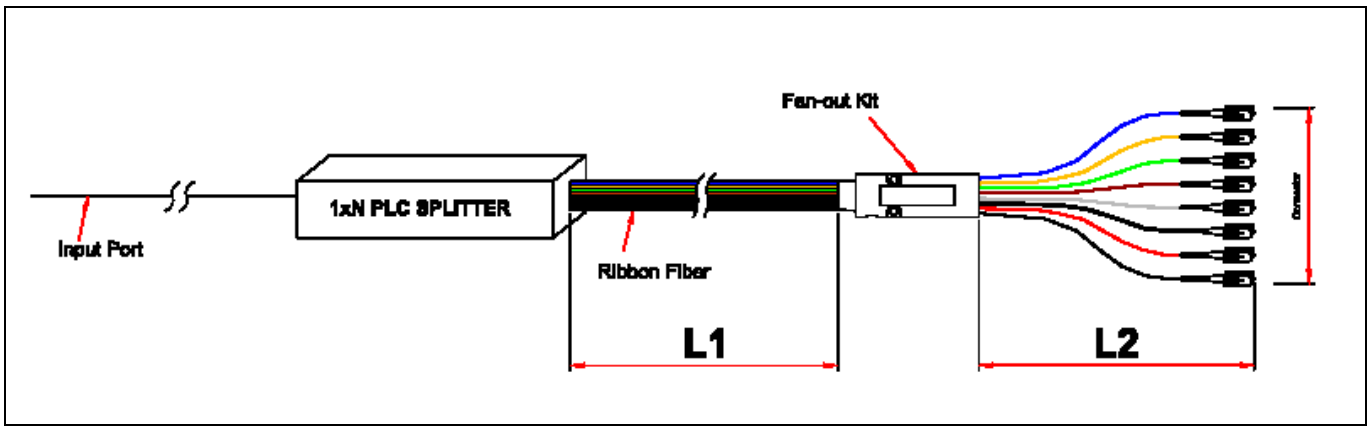


Figure 2. Dimensional Parameter

Parameter	Description	1 X N
Input (cm)	With 900um tube(including connector)	≤ 100.0
L1 (cm)	Ribbon fiber length	≤ 50.0
L2 (cm)	Including connector length	≤ 50.0
Fan out (cm)	Fan-out length	≤ 4.0
Fan out (cm)	Fan-out width	≤ 1.2
Fan out (cm)	Fan-out height	≤ 0.7
Connector type	FC/UPC, FC/APC etc….	

Table 5. Dimensional Parameter

Input Fiber

1) 1 X N module

Input Fiber Color: White

Input Fiber: ϕ 250 +/- 15um SMF

Output Fiber

Output Fiber Color: Refer to table 6 & 7.

Output Fiber:

1 x 2(250) : 4-ribbon

1 x 3(250) : 4-ribbon

1 x 4(250) : 4-ribbon

1 x 6(127) : 4-ribbon x 2ea

1 x 6(250) : 8-ribbon

1 x 8(127): 4-ribbon x 2ea

1 x 8(250): 8-ribbon

1 x 12(127): 8-ribbon x 2ea

1 x 16(127): 8-ribbon x 2ea

1 x 24(127): 12-ribbon x 2ea

1 x 32(127): 8-ribbon x 4ea

1 x 64(127) : 8-ribbon x 8ea

Ch No.	*2ch_250*	*3ch_250*	*4ch_250*	*6ch_127*	*6ch_250*	*8ch_127*	*8ch_250*
1	Blue	Blue	Blue	Blue	Blue	Blue	Blue
2	Orange	Orange	Orange	Blue	Orange	Blue	Orange
3	-	Green	Green	Orange	Green	Orange	Green
4	-	-	Brown	Orange	Brown	Orange	Brown
5	-	-	-	Green	Slate	Green	Slate
6	-	-	-	Green	White	Green	White
7	-	-	-	-	-	Brown	Red
8	-	-	-	-	-	Brown	Black

Table 6. Output fiber color

Ch No.	*12ch_127*	*16ch_127*	*32ch_127*	*64ch_127*	*Ch No.*	*24ch_127*
1, 17, 33, 49	Blue	Blue	Blue	Blue	1, 2	Blue
2, 18, 34, 50	Blue	Blue	Blue	Blue	3, 4	Orange
3, 19, 35, 51	Orange	Orange	Orange	Orange	5, 6	Green
4, 20, 36, 52	Orange	Orange	Orange	Orange	7, 8	Brown
5, 21, 37, 53	Green	Green	Green	Green	9, 10	Slate
6, 22, 38, 54	Green	Green	Green	Green	11, 12	White
7, 23, 39, 55	Brown	Brown	Brown	Brown	13, 14	Red
8, 24, 40, 56	Brown	Brown	Brown	Brown	15, 16	Black
9, 25, 41, 57	Slate	Slate	Slate	Slate	17, 18	Yellow
10, 26, 42, 58	Slate	Slate	Slate	Slate	19, 20	Violet
11, 27, 43, 59	White	White	White	White	21, 22	Rose
12, 28, 44, 60	White	White	White	White	23, 24	Aqua
13, 29, 45, 61	-	Red	Red	Red	-	-
14, 30, 46, 62	-	Red	Red	Red	-	-
15, 31, 47, 63	-	Black	Black	Black	-	-
16, 32, 48, 64	-	Black	Black	Black	-	-

Table 7. Output fiber color

Other Requirements

1. Splitter module should be complied with Side pull and fiber retention test of GR1209 condition.
2. Splitter module should be used bend free fiber(R15).
3. Splitter module should be complied with RoHS standard.

Serial number

Serial product number shall be named in the following format.

Serial product number: Example; SM07A – 004 – 0000

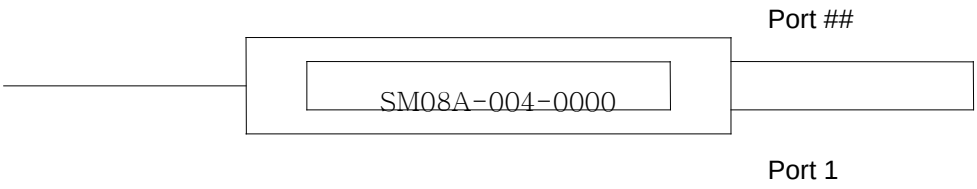
* SM : Product Name [Splitter Module]
* 08 : Manufacturing Year [2008]
* A : Month
* 004 : Product type [1x2(250): 002, 1x3(250): 003, 1x4(250): 004, 1x6(127): 005, 1x6(250): 006, 1x8(127): 007, 1x8(250): 008, 1x12(127): 012, 1x16(127): 016, 1x24(127): 024, 1x32(127): 032, 1x64(127): 064]
* 0000 : Sequential No.

Label

Company label and S/N label shall be attached with the product in the following manner.

Front side: Company label

Back side: S/N label



##: Number of channel

Packaging

Products shall be packed into a suitable case in order to prevent damage during transportation and storage as long as A`s company with not demand other requirement.

Others

When the problem is caused concerning this specification sheet, both companies will confer in sincerity for the solution.