

PRODUCT SPECIFICATION

Accelink File No. :

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Customer :

**Product Name : OSW-11(12,22B)UM-XXX-XX-X-S-XX
/XX**

<5> pages in total (Include Cover)

	Drafter	Reviewer	Approver	Customer Confirm
Signature	Dahai.Zhou			
Date	2009-7-22			

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Document History

VER. & STATUS	DATE	DESCRIPTION OF CHANGE	APPROVER
1.0-draft	2009-5-5	First Drafted	
1.1-modify	2009-7-22	Change notes	

1 DESCRIPTION

1.1 Product Function

Ultra Mini 1x1(1x2,2x2B) Optical Switch.

1.2 Related Product List

N/A

2 OPTIC SPECIFICATION

Table 1 Optical Specifications

NO	Parameter		Unit	Specifications		
				Min	Typical	Max
2.1	Operating Wavelength		nm	1290~1330 AND/OR 1525~1610		
2.2	Insertion Loss ¹	1x1	dB			0.8
		1x2				0.8
		2x2B				0.9
2.3	Insertion Loss Uniformity		dB			0.25
2.4	Return Loss		dB	45		
2.5	Polarization Dependent Loss		dB			0.07
2.6	Wavelength Dependent Loss					0.2
2.7	Temperature Dependent Loss					0.2
2.8	Crosstalk		dB	55		
2.9	Repeatability		dB			±0.02
2.10	Switch Time		ms			4
2.11	Durability		times	10 ⁷		
2.12	Switch Voltage		V	4.5		5.5
2.13	Switch Current	Latching	mA		22	25
		Non-latching			33	35
2.14	Power Handling		mW			500

Note:

- Test over the specified wavelength range(1290~1330nm bandwidth or 1525~1610nm bandwidth), operating temperature range(-5°C~+65°C), and all states of polarization.

3 OPERATION/STORAGE TEMPERATURE/HUMIDITY

Table 2 Environmental conditions

NO	Parameter	Specifications	Units	Note
3.1	Operating temperature	-5~+65	°C	
3.2	Operation Humidity	5~95	%RH	
3.3	Storage Temperature	-40~+85	°C	
3.4	Storage Humidity	5~95	%RH	

4 PIGTAIL AND CONNECTOR

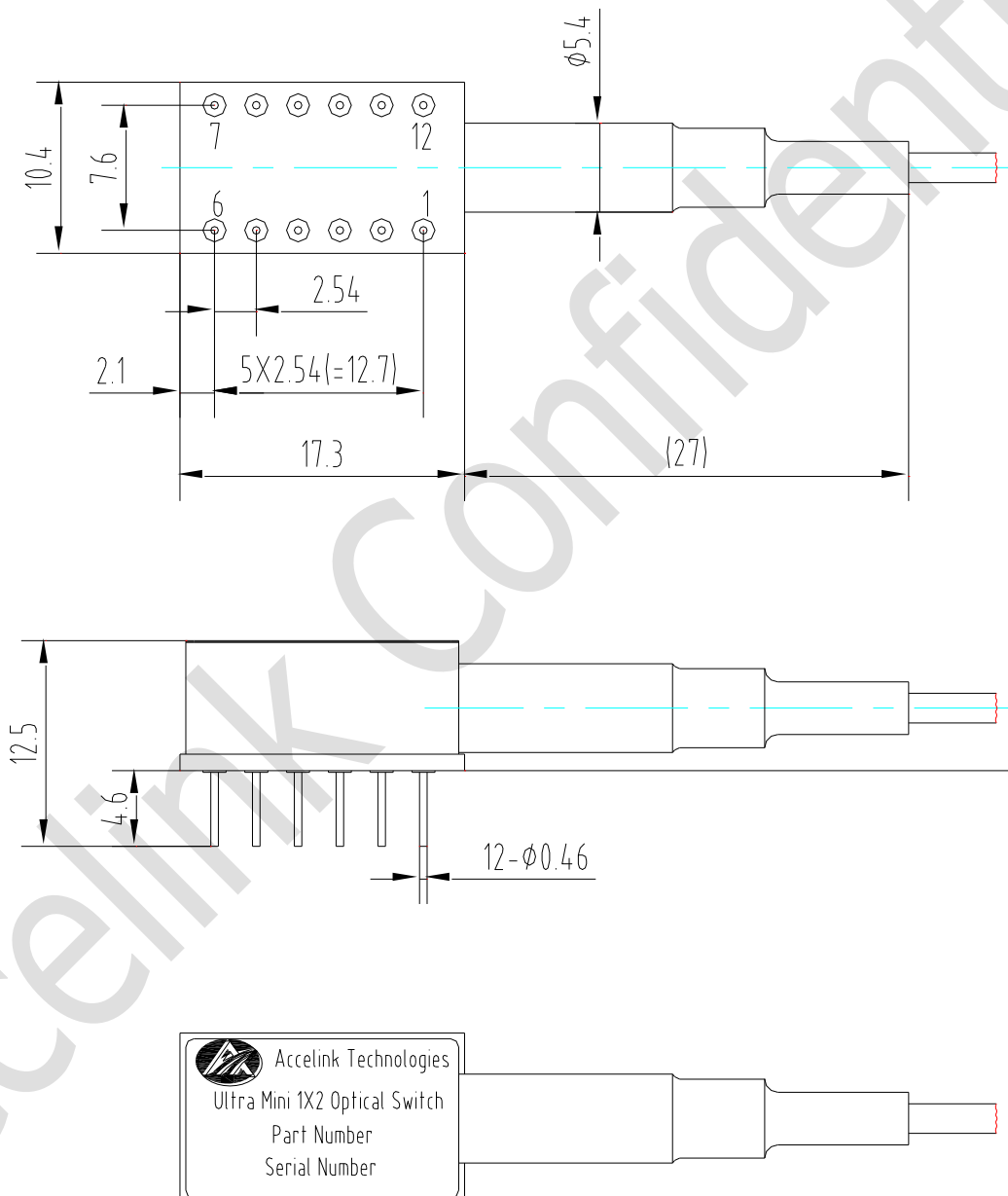
Table 3 Pigtail and connector type/length

NO	Code	Parameter	Specifications	Unit
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4.1	1	Fiber Type	SMF-28e	
4.2	2	Pigtail type	250 μ m bare fiber or 900 μ m loose tube	mm
4.3	3	Pigtail Length (All Port)	Customer defined	m
4.4	4	Optical Connector (All port)	Customer defined	

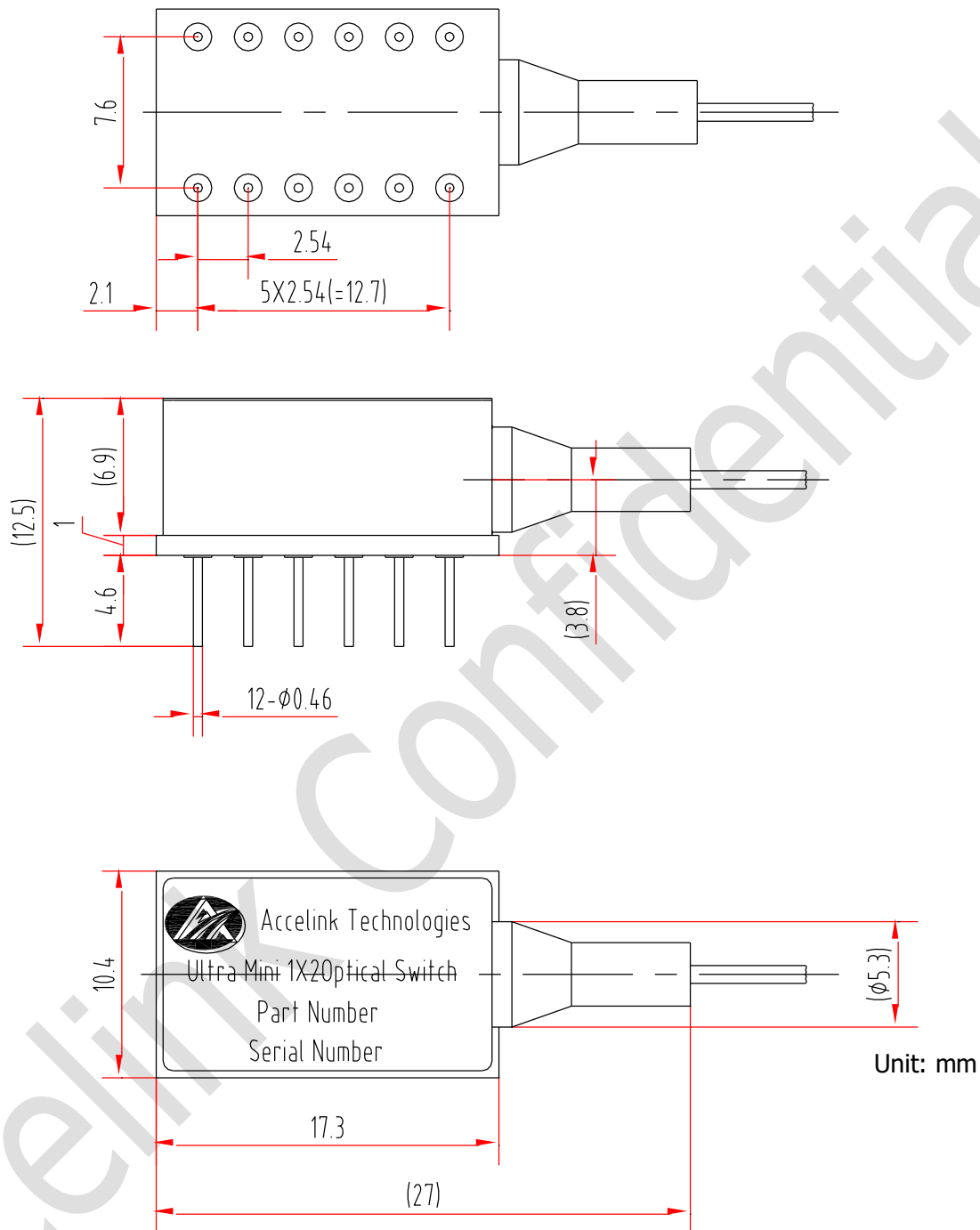
5 MECHANICAL DRAWINGS

Figure 1 Mechanical Drawings
Type 1: Metal tube with hot shrink tube



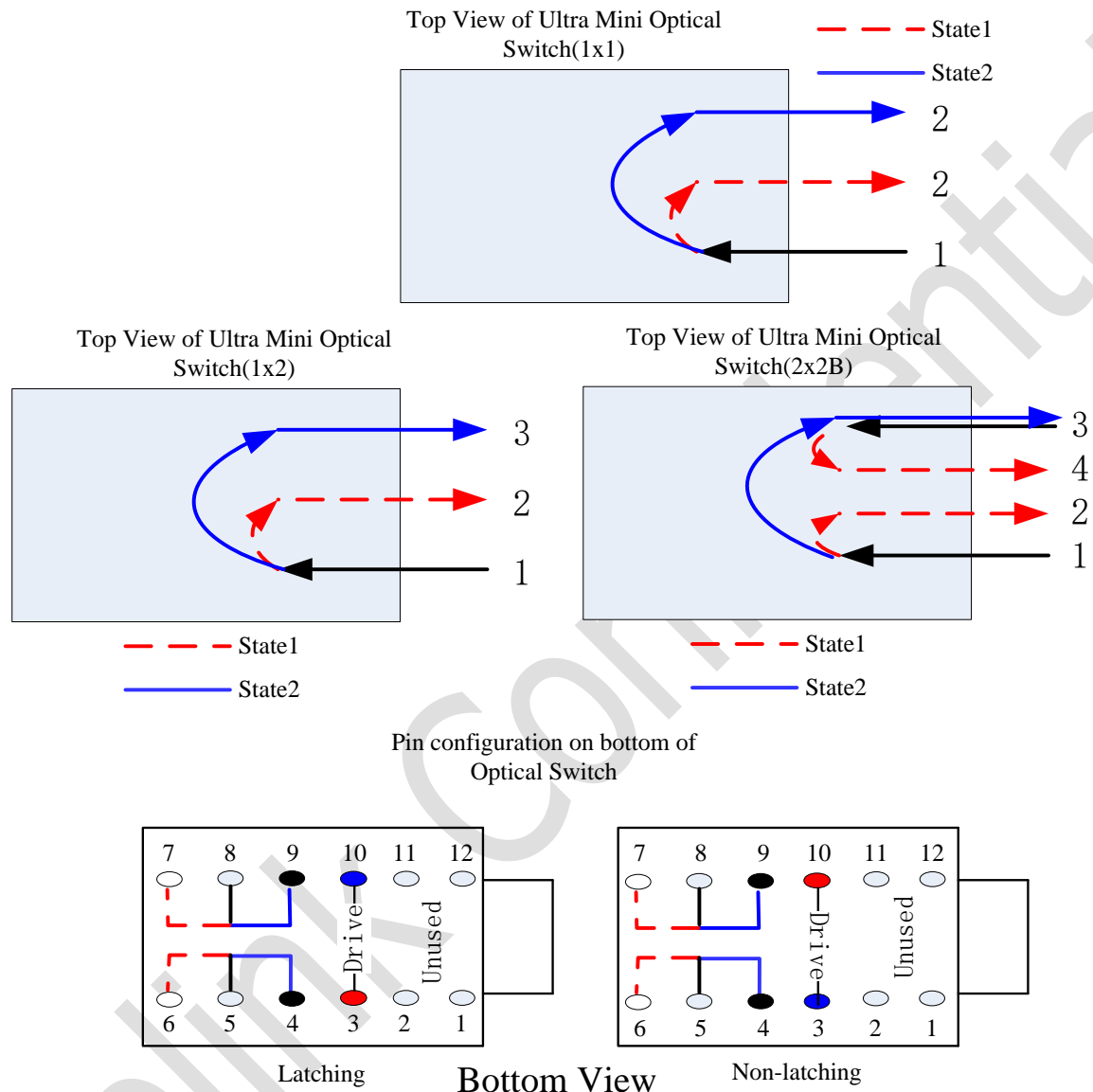


Type 2: Hot shrink tube



6 OPTIC PORTS AND ELECTRONIC PINS DEFINITION

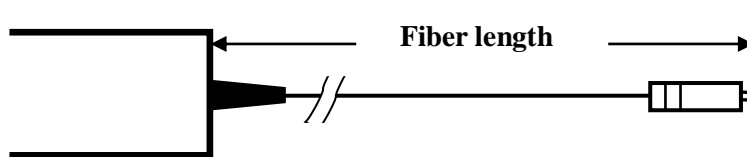
Table 4 Optical Ports and Electronic Pins Definition



Type	Light Path			Drive pin		monitor	
	1x1	1x2	2x2B	3	10	8-7 5-6	8-9 5-4
Latching	1-2	1-2	1-2/3-4	+5VDC	GND	close	open
	-	1-3	1-3	GND	+5VDC	open	close
Non-latching	1-2	1-2	1-2/3-4	+5VDC	GND	close	open
	-	1-3	1-3	GND	GND	open	close

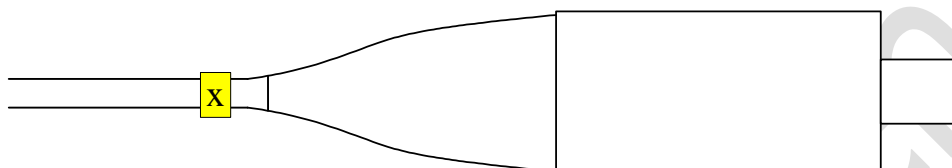
7 FIBER LENGTH

Figure 2 Fiber Length Definition



8 LABEL DEFINITION

Figure 3 Label Definition



X=1, 2, 3

Ordering Information

OSW-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Type	Wavelength	Fiber Type	Fiber Length	Relay Type	Fiber Mode	Connector
	11UM=1×1 12UM=1×2 22BUM=2× 2 Blocking	850=850 131=1310 155=1550 135=1310&15 50	025=SMF-28e 250um 09=SMF-28e with 900um loose tube	0.5=0.5M 1=1.0M Customer defined. . .	L=Latching N=Non-latching	S=Single Mode M=Multi-Mode	00=None FC/PC FC/APC SC/PC SC/APC MU LC . . .