

# PRODUCT SPECIFICATION

**Product Name: VOA 48ch-Compact Module**

**Product Type: VOA-48-MIN-00**



## Document History

Version	Main amendments	Revision Date	Effective Date	Reviser
1.0	Initial Version	2022-07-10	2022-07-10	XING XU

## 1. Purpose and scope of application

Metro Area Networks

Long Haul Networks

## 2. Performance and specification parameters

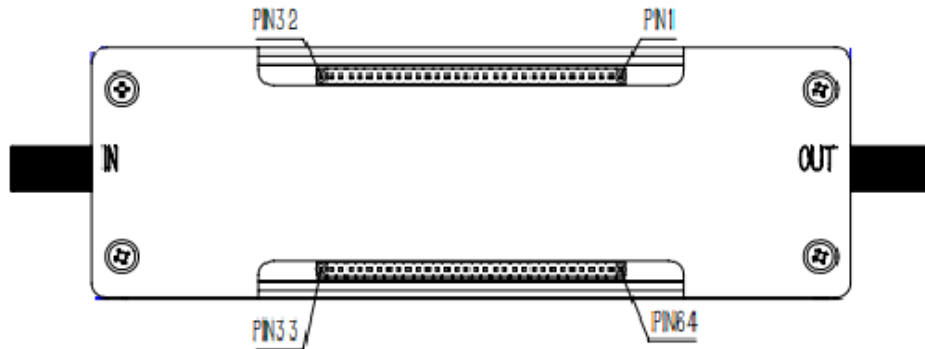
### 2.1 Optical Specifications

PARAMETERS	UNITS	SPECIFICATIONS
Attenuation Type	/	Bright
Output Number of Channels	CH	48
Operating Band	nm	1520~1570
Optical Insertion Loss	dB	≤1.5
Ripple	dB	≤0.5
Polarization Dependent Loss	dB	≤0.8
Adjacent Channel Isolation	dB	≥25
Attenuation Range	dB	0~15
Attenuation Resolution	dB	0.1(0<attenuation≤5)
	dB	0.2(5<attenuation≤15)
Polarization Mode Dispersion	ps	≤0.5
Optical Return Loss	dB	≥40
Package Size	mm	100×33×7.9
Fiber Type	/	G.657 A2 250um Ribbon Fiber
Fiber Length	mm	1000±20
Connector Type		NA

### 2.2 Electrical and Temperature Control Specifications (only for VOA)

PARAMETERS	NOTES	SPECIFICATIONS			UNITS
		Min	Typ	Max	
Heater Drive Voltage		4.75	+5	5.25	V

## 2.3 Electrical Interface Definition



NO.	PIN	NO.	PIN	NO.	PIN
1	CH24-	25	GND	49	CH40-
2	CH23-	26	CH+1(1~6+)	50	CH39-
3	CH22-	27	CH+2(7~12+)	51	CH38-
4	CH21-	28	CH+3(13~18+)	52	CH37-
5	CH20-	29	CH+4(19~24+)	53	CH36-
6	CH19-	30	NISO	54	CH35-
7	CH18-	31	RTH1-	55	CH34-
8	CH17-	32	RTH1+	56	CH33-
9	CH16-	33	RTH2+	57	CH32-
10	CH15-	34	RTH2-	58	CH31-
11	CH14-	35	NISO	59	CH30-
12	CH13-	36	CH+5(25~30+)	60	CH29-
13	CH12-	37	CH+6(31~36+)	61	CH28-
14	CH11-	38	CH+7(37~42+)	62	CH27-
15	CH10-	39	CH+8(43+~48+)	63	CH26-
16	CH9-	40	GND	64	CH25-
17	CH8-	41	CH48-		
18	CH7-	42	CH47-		
19	CH6	43	CH46-		
20	CH5-	44	CH45-		
21	CH4-	45	CH44-		
22	CH3-	46	CH43-		
23	CH2-	47	CH42-		
24	CH1-	48	CH41-		

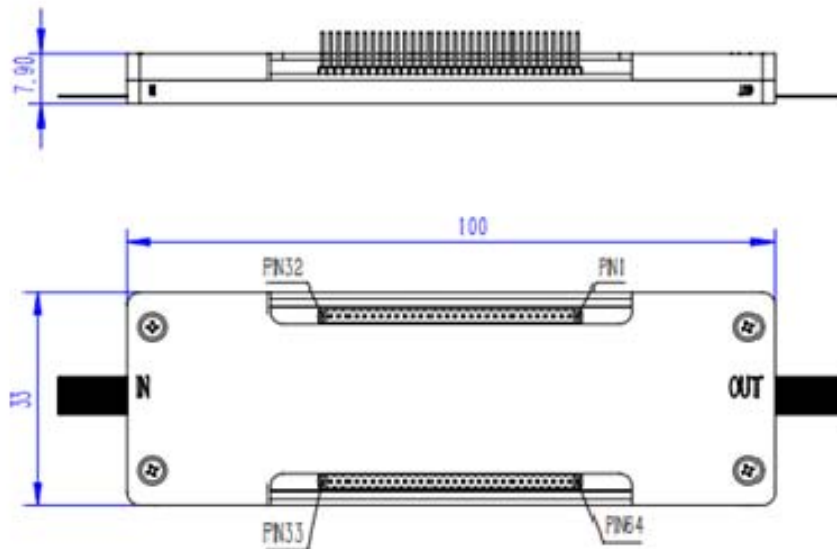
### 3. Mechanical Schematic and Dimensions

#### ■ SHIJIA Standard

Case Dimension: 100mm×33mm×7.9mm

Material: aluminum alloy ( Anodized primary color)

#### □ Customization Requirements



#### Label Information

#### ■ SHIJIA Standard

Product Label: White PET Label

Label Size: 3.5mm×60mm

#### □ Customization Requirements

## 4. Working Environment

PARAMETERS	UNITS	SPECIFICATIONS
Maximum Continuous Optical Power	dBm	25
Operating Temperature	°C	-15 ~ +75
Storage Temperature	°C	-40 ~ +85
Storage Humidity	%RH	5 ~ +85

## 5. Packing Requirements

- SHIJIA Standard
- Customization Requirements

## 6. Other Requirements

- Without requirement items, SHIJIA Standard