

FEATURES

- **DESIGNED FOR SONET/SDH/ATM SYSTEMS**
- **REFLOW SOLDERABLE SMD HOUSING**
- **COMPACT SIZE:**
26 x 10 x 3 (mm)
- **LOW POWER CONSUMPTION:**
0.6 W TYP
- **POWER SUPPLY VOLTAGE 3.3 V**
- **WIDE OPERATING TEMPERATURE:**
OD-J7991-0A01: 0 to 75°C

MAJOR PERFORMANCE

- **DATA RATE:**
2.48832 Gbps (STM-16, OC-48)
- **DATA/CLK INTERFACES:**
Differential PECL compatibility
- **ALARM FUNCTIONS:**
Optical input down alarm
- **PLL CLOCK DATA RECOVERY**

PERFORMANCE CHARACTERISTICS

(OD-J7991-0A01)

Items	Performance
Transmission Speed	2.48832 Gbps
Data Format	Scrambled NRZ (External Scrambler is Required.)
Pigtail Fiber	SMF 550 nm each Optical Connector: SC, FC, MUJ
Output Input power range	Minimum receiving power: -18 dBm MAX (Average), Overload: -3 dBm MIN (Average)
Output Electrical Signal Interface	Data Interface: P-ECL Clock Interface: P-ECL
Applicable Transmission Fiber Cables	SMF (SI-10/125)
Ambient Temperature	OD-J6888-0A01: 0 to 75°C
Relative Humidity	30 to 80 % RH (non-condense Condition)
Power Supply Voltage	DC: +3.3 V
Power Consumption	0.6 W TYP
Dimensions	26 x 10 x 3 (mm) (refer to drawing)
Alarm Functions	Optical input down alarm

APPLICATIONS

- **TELECOMMUNICATIONS NETWORKS:**
SONET OC-48 LR-1 Interface compatible
(Bellcore GR-253-CORE requirement)
SDH STM-16, L-16.1 Interface Compatible
(ITU-T Recommendation G.957)

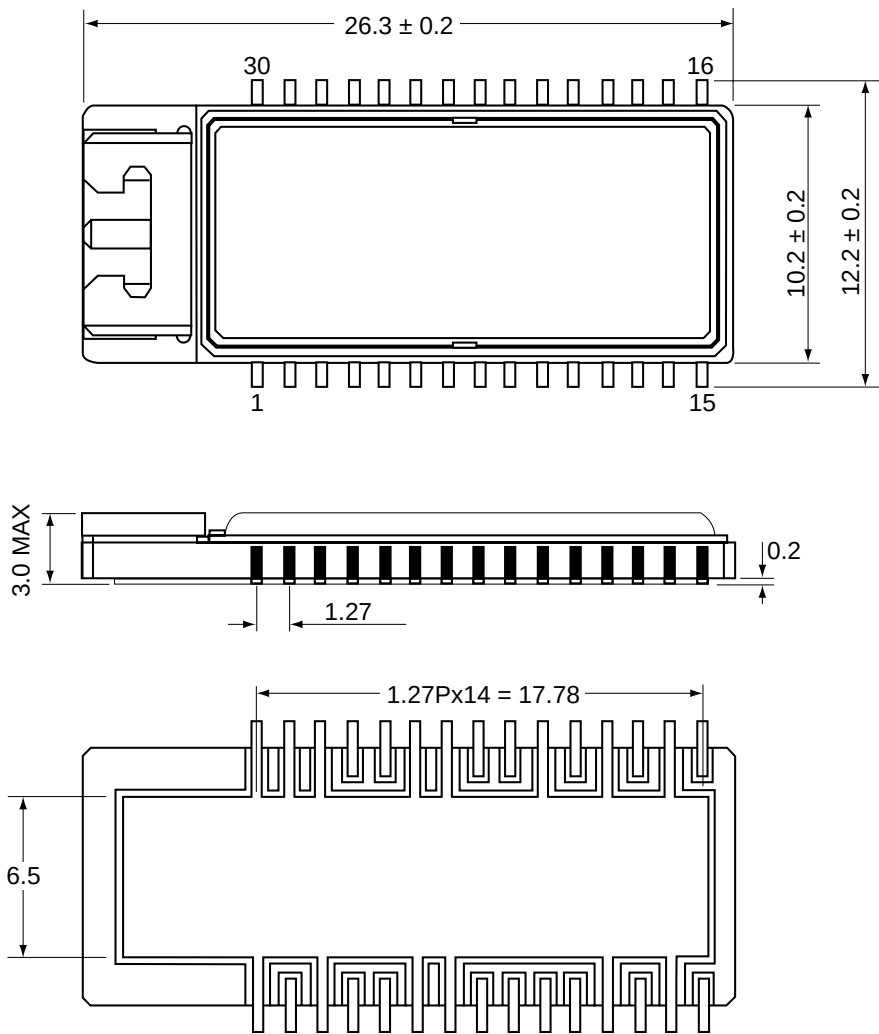
PIGTAIL ORDERING INFORMATION¹

Optical Connector	Product Number
SC	OD-S524-SCFPC-SM
MUJ	OD-S524-FCFPC-SM
FC	OD-S524-MUJFPC-SM

NOTE:

1. Pigtail is not included with the product. A separate order is required.

(unit in mm)



PIN NO.	SYMBOL	I/O	PIN NO.	SYMBOL	I/O
1	GND	I	16	GND	I
2	GND	I	17	DATA OUT (-)	O
3	GND	I	18	DATA OUT (+)	O
4	GND	I	19	CLK OUT (-)	O
5	GND	I	20	CLK OUT (+)	O
6	GND	I	21	GND	I
7	GND	I	22	GND	I
8	GND	I	23	GND	I
9	Vcc	I	24	Vcc	I
10	EXTC 1	-	25	Vcc	I
11	N. C.	-	26	Vcc	I
12	EXTC 2A	-	27	Vcc	I
13	EXTC 2B	-	28	Vcc	I
14	GND	I	29	GND	I
15	OPT IN ALM	O	30	EXTC 3	I

I: Input Terminal, O: Output Terminal