

### FEATURES

- **DESIGNED FOR SONET/SDH/ATM SYSTEMS**
- **REFLOW SOLDERABLE SMD HOUSING**
- **COMPACT SIZE:**  
28.3 x 12.7 x 3 (mm)
- **LOW POWER CONSUMPTION:**  
0.6 W MAX
- **SINGLE +3.3 V POWER SUPPLY:**
- **WIDE OPERATING TEMPERATURE RANGE:**  
OD-J6887-0A01: 0 to 75°C  
OD-J6887-HA01: -40 to 85°C

### PERFORMANCE CHARACTERISTICS

Parameter	Performance
Transmission Speed	2.48832 Gbps
Data Format	Scrambled NRZ (External Scrambler is Required)
Pigtail Fiber (Separate order is necessary)	SMF 550 mm Optical Connector: SC, FC, MUJ
Output Optical Interface	Launched Power: -10 to -3 dBm Extinction Ratio: 8.2 dB MIN
Input Electrical Interface	Data: AC Coupled 50 Ω Clock: AC Coupled 50 Ω
Applicable Transmission Fiber Cables	SMF (SI-10/125)
Operating Ambient Temperature	0 to 75°C: OD-J6887-0A01 -40 to 85°C: OD-J6887-HA0
Relative Humidity	30 to 80 % RH (Non-condense Condition)
Power Supply Voltage	DC: +3.3 V
Power Consumption	0.6 W MAX
Dimensions (Refer to Outline Dimensions)	28.3 x 12.7 x 3 (mm)
Alarm Functions	Optical output down alarm, LD bias alarm;

### MAJOR PERFORMANCE

- **DATA RATE:**  
2.48832 Gbps (STM-16, OC-48)
- **AC COUPLED SIGNAL INTERFACE (50 Ω)**
- **ALARM FUNCTIONS:**  
Optical output down alarm, LD bias alarm

### APPLICATIONS

- **TELECOMMUNICATIONS NETWORKS**  
SONET OC-48 SR Interface Compatible  
(Bellcore GR-253-CORE requirements)  
SDH STM-16 I-16 Interface Compatible  
(ITU-T Recommendation G.957)

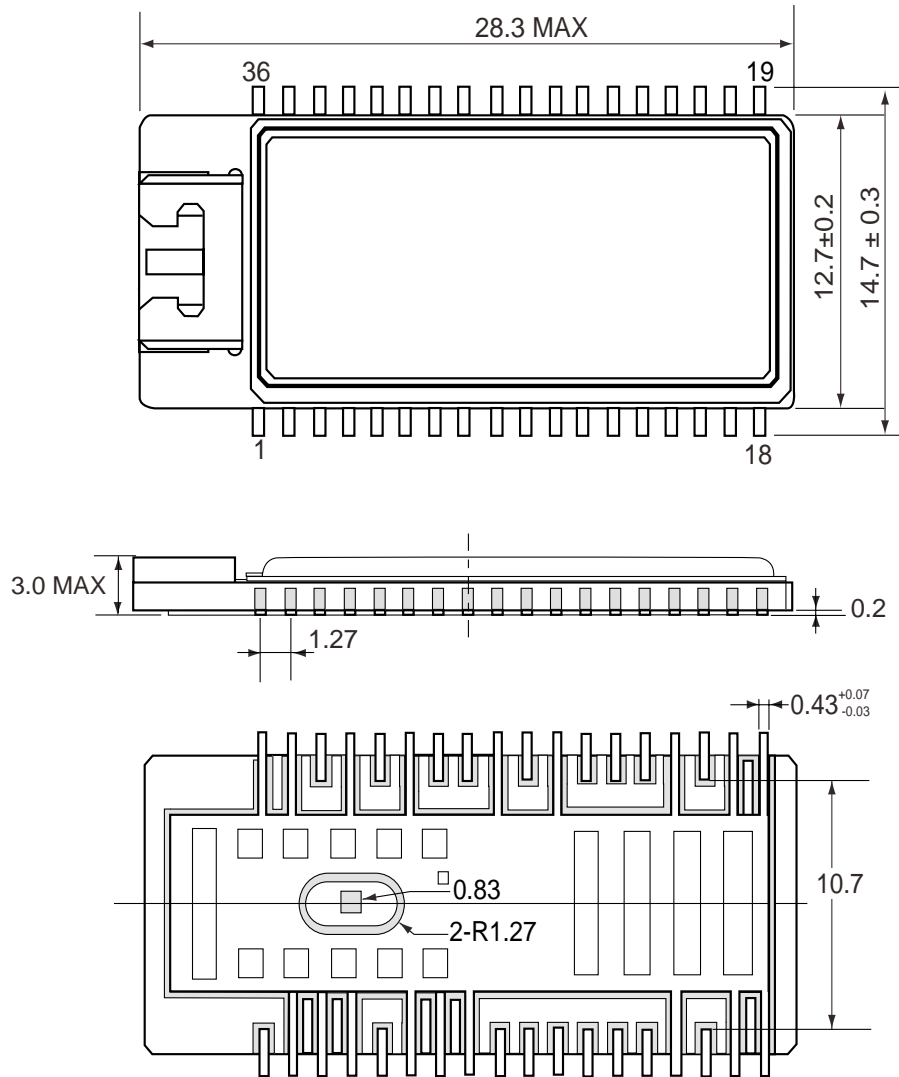
### PIGTAIL ORDERING INFORMATION<sup>1</sup>

Pigtail Optical Connector	Pigtail Part Number
SC	OD-S524-SC-SM
FC	OD-S524-FCPC-SM
MUJ	OD-S524-MUJ-SM

Note:

1. Pigtail fiber is not included with the product. Separate order is necessary.

**OUTLINE DIMENSIONS** (Units in mm)



PIN NO.	SYMBOL	I/O	PIN NO.	SYMBOL	I/O
1	OPT MON	O	16	GND	I
2	GND	I	17	GND	I
3	GND	I	18	GND	I
4	FF SEL	I	19	GND	I
5	GND	I	20	EXT C	-
6	CLK IN (-)	I	21	Vcc	I
7	CLK IN (+)	I	22	GND	I
8	GND	I	23	GND	I
9	DATA IN (-)	I	24	GND	I
10	DATA IN (+)	I	25	GND	I
11	SHUT DOWN	I	26	GND	I
12	BIAS MON	O	27	GND	I
13	CURR ALM TST	I	28	Vcc	I
14	CURR ALM	O	29	GND	I
15	OPT OUT ALM	O	30	Vcc	I

I: Input Terminal, O: Output Terminal

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