

### FEATURES

- **DESIGNED FOR SONET/SDH/ATM SYSTEMS**
- **REFLOW SOLDERABLE SMD HOUSING**
- **COMPACT SIZE:**  
26 x 10 x 3 (mm)
- **LOW POWER CONSUMPTION:**  
0.3 W TYP
- **SINGLE +3.3 V POWER SUPPLY**
- **WIDE OPERATING TEMPERATURE RANGE:**  
OD-J6501-0A01: 0 to +65°C  
OD-J6501-HB01: -40 to +85°C

### PERFORMANCE CHARACTERISTICS

Parameter	Performance
Transmission Speed	155.52 Mbps
Data Format	Scrambled NRZ (External Scrambler is Required)
Pigtail Fiber (Separate order is necessary)	SMF Pigtail length: 550 mm each Optical Connector: SC, FC, MUJ
Input Optical Interface OD-J6501-0A01	Sensitivity: -34 dBm MAX Overload: -8 dBm MIN
OD-J6501-HB01	Sensitivity: -28 dBm MAX Overload: -8 dBm MIN
Bit Error Rate	$1 \times 10^{-16}$ MAX
Output Electrical Interface	Data: P-ECL Clock: P-ECL
Applicable Transmission Fiber Cable	SMF (SI-10/125)
Operating Ambient Temperature	0 to 65°C: OD-J6501-0A01 -40 to 85°C: OD-J6501-HB01
Relative Humidity	30 to 80 % RH (Non-condense Condition)
Power Supply Voltage	DC: +3.3 V
Power Consumption	0.3 W TYP
Dimensions (Refer to Outline Dimensions)	26 x 10 x 3(mm)
Alarm Functions	Optical input down alarm

### MAJOR PERFORMANCE

- **DATA RATE:**  
155.52 Mbps (STM-1, OC-3)
- **P-ECL SIGNAL LOGIC INTERFACE**
- **ALARM FUNCTIONS:**  
Optical input down alarm
- **PLL CLOCK RECOVERY**

### APPLICATIONS

#### TELECOMMUNICATIONS NETWORKS

##### OD-J6501-0A01

STM-11-1/S-1.1/L-1.1/L-1.2/L-1.3 Interface Compatible  
(ITU-T Recommendation G.957)

SONET OC-3 SR/IR /LR-1, 2, 3 Interface Compatible  
(GR-253-Core Recommendations)

##### OD-J6501-HB01

STM-11-1/S-1.1 Interface Compatible  
(ITU-T Recommendation G.957)

SONET OC-3 SR/IR /LR-1, 2, 3 Interface Compatible  
(GR-253-Core Recommendations)

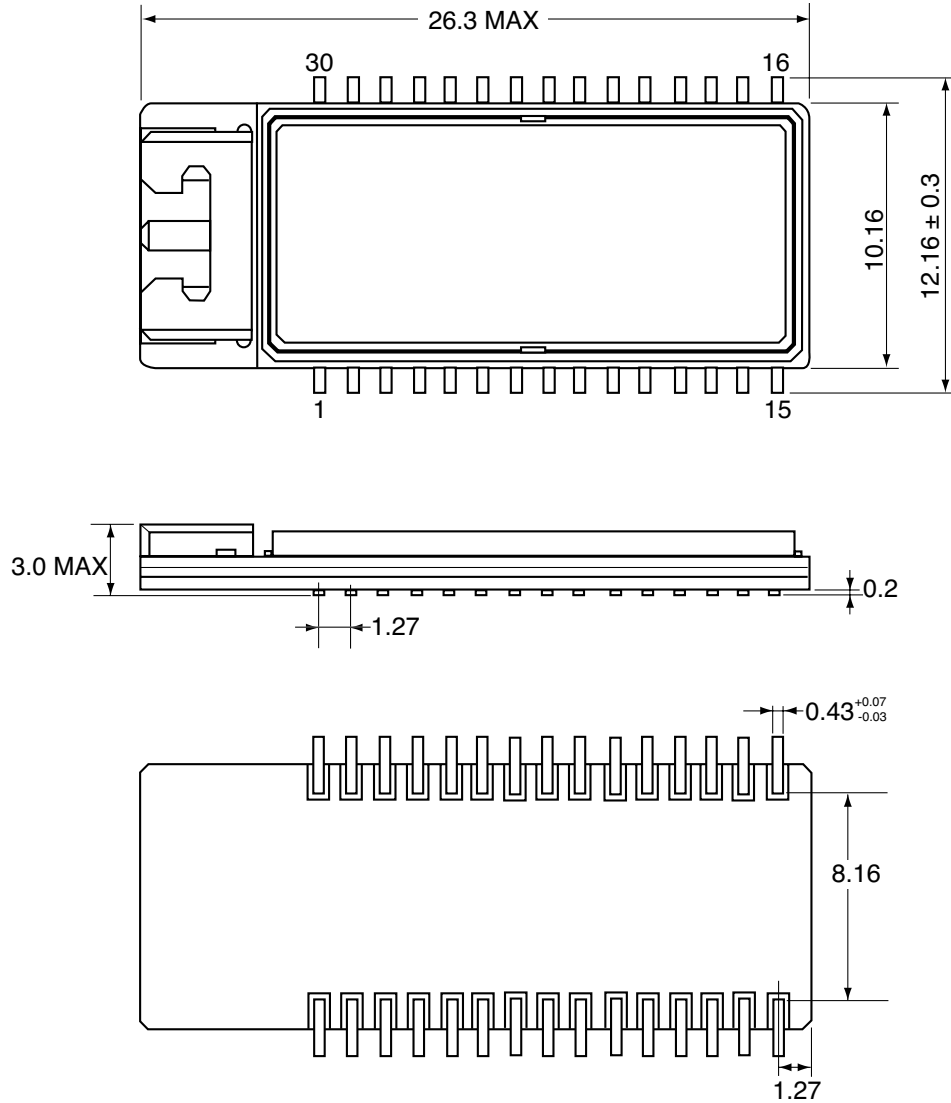
### PIGTAIL ORDERING INFORMATION<sup>1</sup>

Pigtail Optical Connector	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 required.

**OUTLINE DIMENSIONS** (Units 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