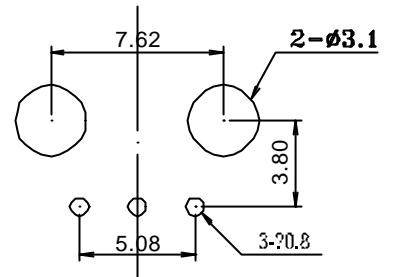
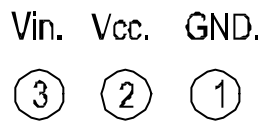
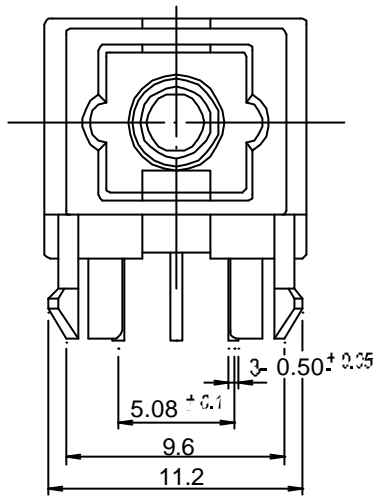
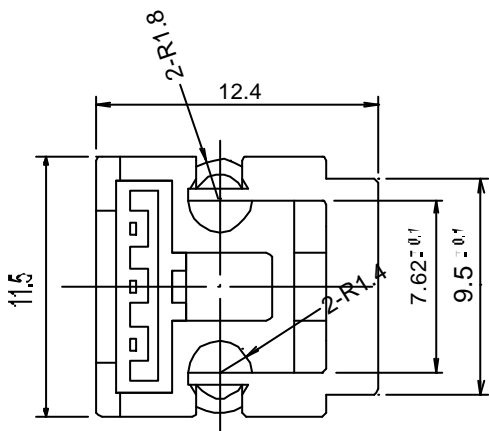
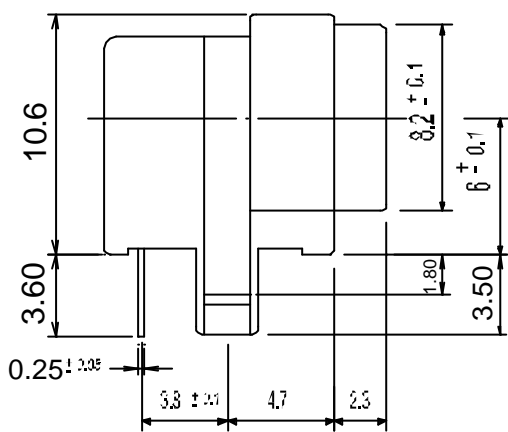


■ PACKAGE DIMENSIONS



PCB.HOLE SIZE

TOLERANCE : +/- 0.2 mm.

Tx.UNIT.

DESCRIPTION.

TRANSMITTER UNIT

DRAWN NO

ZL-3000

SHEET

2

■ ABSOLUTE MAXIMUM RATINGS(Ta = 25)

Parameter	Symbol	Rating	Unit
Supply Voltage	V _{cc}	-0.5 to 7	V
DC Input Voltage	V _{in}	-0.5 to V _{cc} +0.5	V
Power Dissipation	P	40	mW
Storage Temperature	T _{stg}	-30 to +80	
Operating Temperature	T _{opr}	-20 to +70	
Soldering Temperature	T _{sol}	260*	

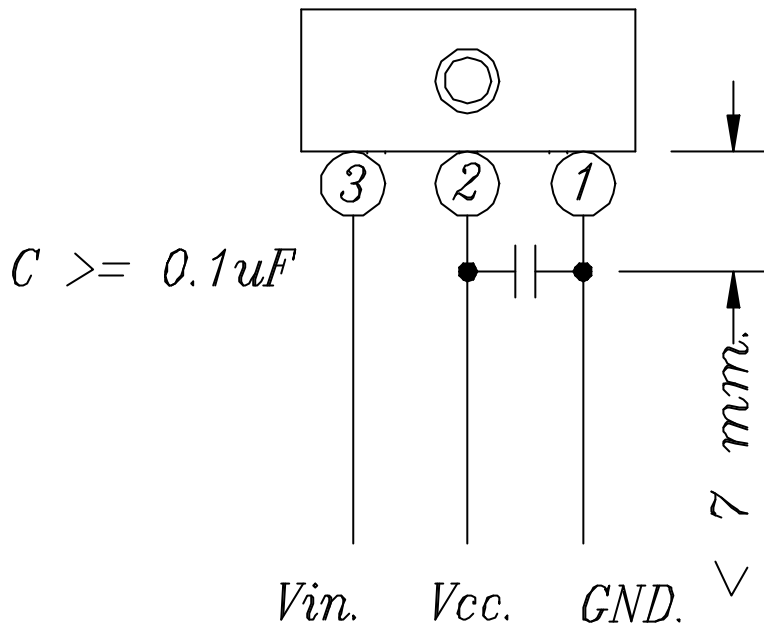
* Soldering time ≤ 10 s.

■ ELECTRO-OPTICAL CHARACTERISTICS

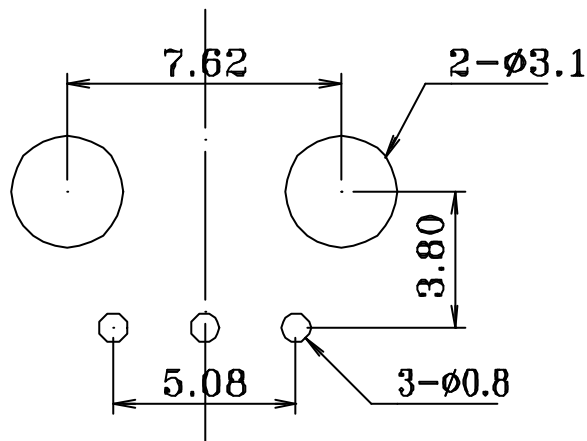
(V_{cc}=3V +/- 0.05 V, T_{opr.}= 25)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Operating Voltage	V _{cc}		2.7	3.00	3.3	V
Peak Emission Wavelength	λ _p		630	660	690	nm
Transmission Speed		NRZ signal	DC	-	8	Mbps
Transmission Distance		Using APF	0.2	-	20	m
Fiber Coupling Light Output	P _f	*1	-21	-17	-15	dBm
Dissipation Current	I _{cc}	*2	-	8	12	mA
High Level Input Voltage	V _{IH}		2.1	-	-	V
Low Level Input Voltage	V _{IL}		-	-	0.8	V
Low to high delay time	T _{PLH}	*3			100	ns
High to low delay time	T _{PHL}	*3			100	ns
Pulse width distortion	Δ _{tw}	*3	- 25		+ 25	ns
Jitter	Δ _{tj}	*3		1	30	ns

■ **METHOD OF USE**



■ **PCB LAYOUT for ELECTRICAL CIRCUIT**



PCB.HOLE SIZE

Unit : mm

Dimension Tolerance : ± 0.1 mm

Substratc Thockncss : 1.6mm

DESCRIPTION.

TRANSMITTER UNIT

DRAWN NO.

ZL-3000

SHEET

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■ RELIABILITY TEST PARAMETERS

($V_{cc}=3V \pm 0.05 V$, $T_{opr.}= 25$)

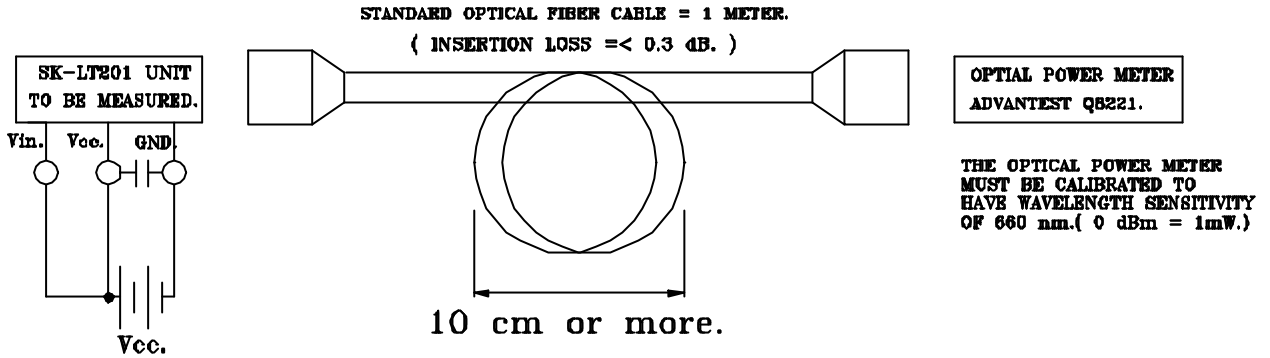
No.	Item	Test Condition	Test Hour/Cycle	Sample Size (piece)	AC/RE
1	Soldering Heat	260 \pm 5	10 seconds	154	0/1
2	Operation Life Test(3)	$V_{cc} = 3V$, $T_a = 25$ Vin signal: 8 Mbps(NRZ)	1000	22	0/1
3	Operation Life Test(2)	$V_{cc} = 3V$, $T_a = 25$ $I = 20 \text{ mA}$	1000	22	0/1
4	High Temp. Storage	$T_a = 80$	1000	22	0/1
5	Low Temp. Storage	$T_a = -30$	1000	22	0/1
6	High Temp.& Humidity. Test	$T_a = 80$, RH 85%	1000	22	0/1
7	Temperature Cycle Test	-30 25 80 (30min) (5min) (30min)	100	22	0/1
8	Thermal Shock Test	-30 ~~~~ 80 (3min) (10sec) (3min)	100	22	0/1

Judgement Method : no open & no short circuits.

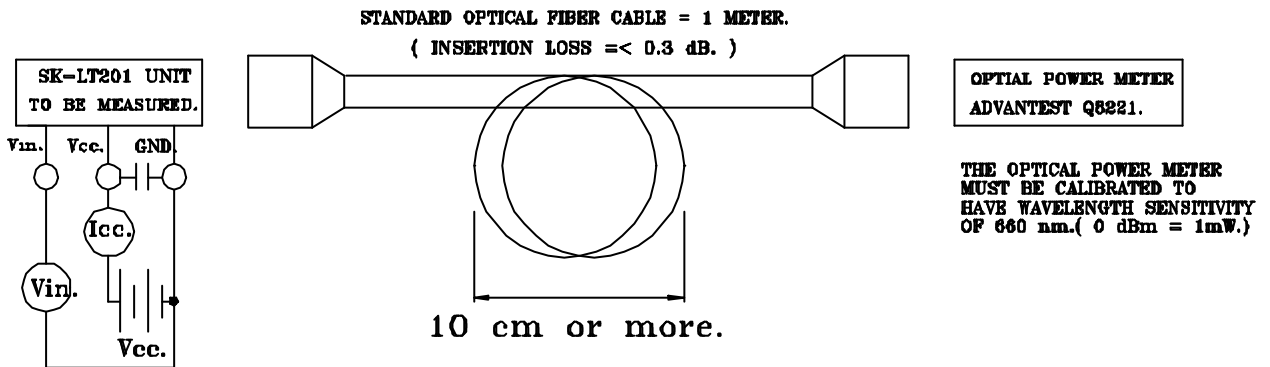
DESCRIPTION	TRANSMITTER UNIT	DRAWN NO. ZL-3000	SHEET 5
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MEASURING METHOD

1.) MEASURING METHOD OF OPTICAL OUTPUT COUPLING FIBER.



2.) INPUT VOLTAGE / POWER DISSIPATION MEASURING METHOD.



3.) PULSE RESPONSE MEASURING METHOD.

