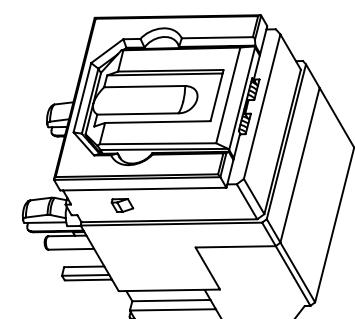
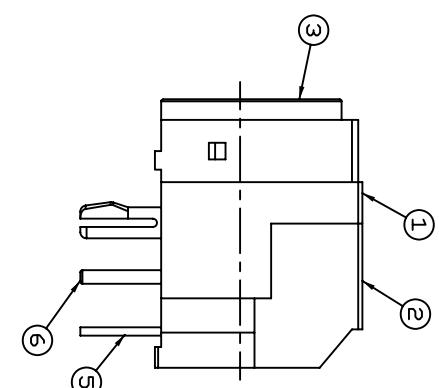
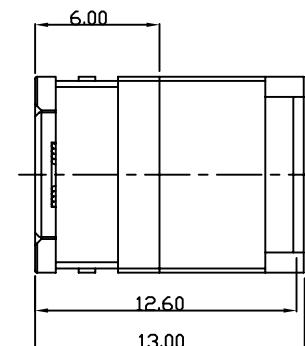
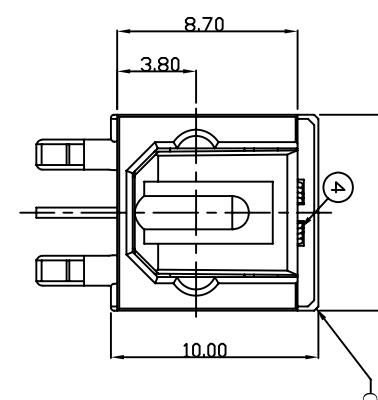
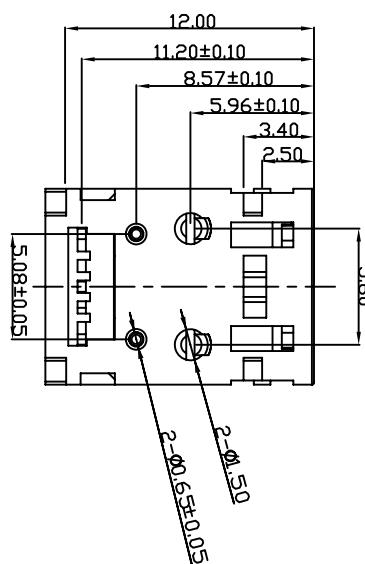
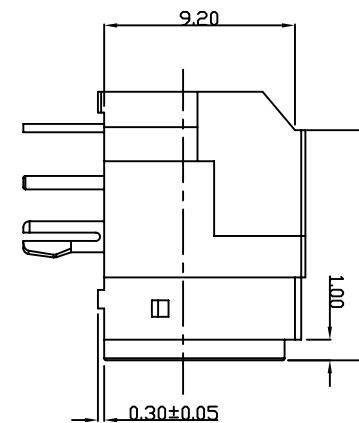
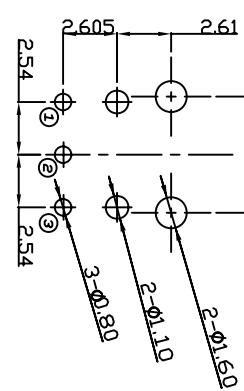


HISTORY X COUNT	DATE	ECN NO.	REV.	REVISION	SIGN
▲					

BOTTOM VIEW
P.C.B TOLERANCE ± 0.10
Recommended PCB thickness: 1.6 mm

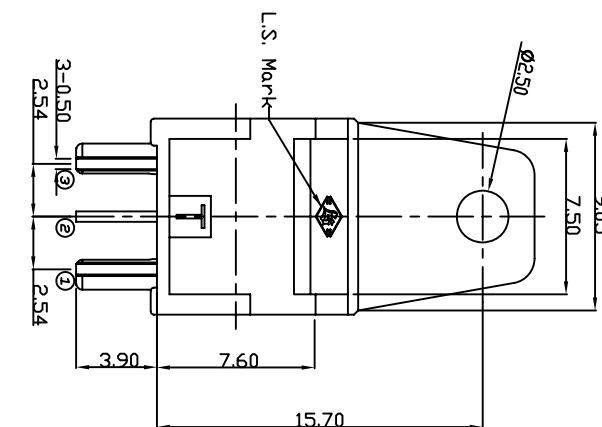
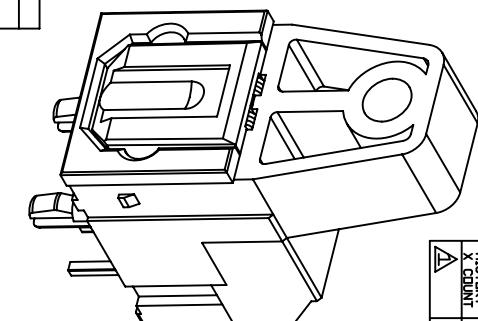
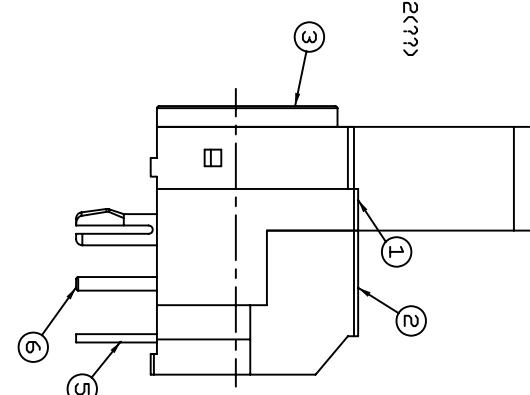
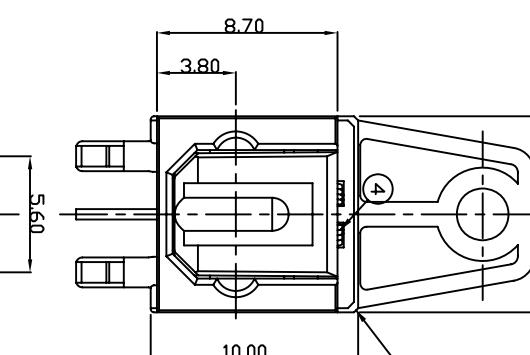
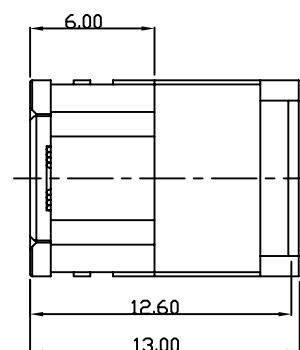
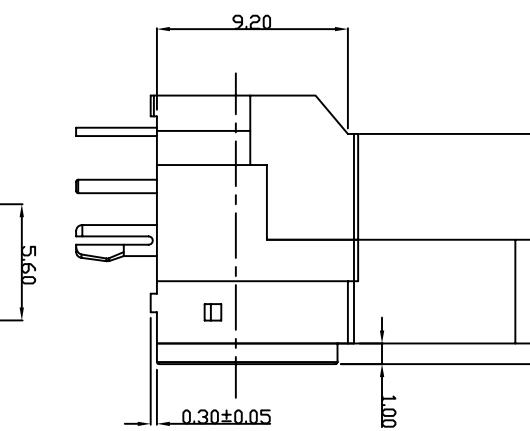
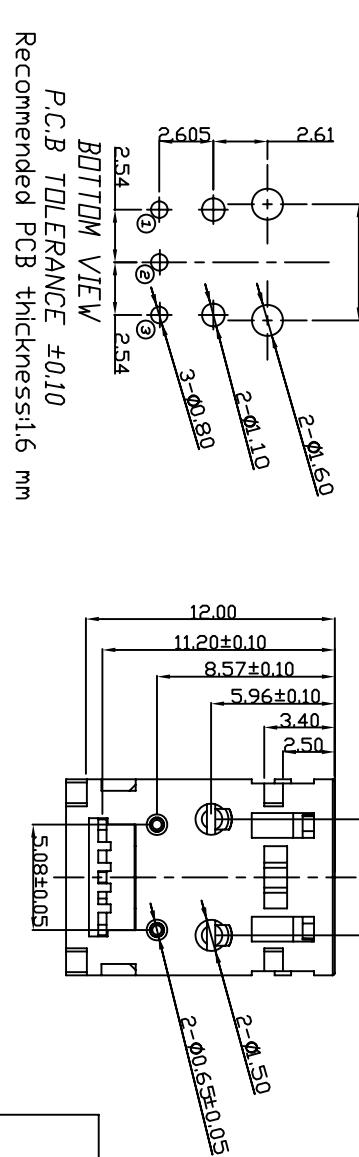


LIH SHENG PRECISION
INDUSTRIAL CO., LTD.

NO	PART NAME	Q'TY	MATERIAL	PLATED	REMARK
6	ND1 PIN	2			Sn
5	Transmitter	1			
4	Spring	1	SWPA	BLACK	
3	Shutter	1	NYLON PA-66	PANTONE 424C	
2	Case	1	NYLON PA-66	BLACK	
1	Body	1	NYLON PA-66	BLACK	
NO	PART NAME	Q'TY	MATERIAL	PLATED	REMARK

TOLERANCE	Material	PART NAME	OPTICAL CONNECTOR
X. ± 0.5			
X.X ± 0.3			
X.XX ± 0.15			
Disposal			
		PART NO.	LOC0701T-16AHB
		DATE	2005.09.30
		REV.A	
Transmitter	Vin	UNIT	DRAW
	Vcc	SCALE	CHECK
	GND		APPROVE
mm	mm	4:1	Jacky
			Chris
			Cooper

HISTORY X COUNT	DATE	ECN NO.	REV.	REVISION	SIGN
△					



LH SHENG PRECISION
INDUSTRIAL CO., LTD.

6 NO.1 PIN

5 Transmitter

4 Spring

3 Shutter

2 Case

1 Body

NO PART NAME Q'TY MATERIAL

PLATED

REMARK

Sn

TOLERANCE

X. ± 0.5

X.X ± 0.3

X.XX ± 0.15

Disposal

Transmitter

Part Name

Part No.

Loco701TA-16AHB

Vin

Vcc

GND

UNIT

SCALE

DRAW

CHECK

APPROVE

Jacky

Chris

Cooper

仕樣書 SPECIFICATION

CUSTOMER MODEL NO. / TITLE OPTICAL TRANSMITTER JACK	SPECIFICATION NO. LOC0701T-16 系列 LOC0701TA-16 系列	PAGE : 1 OF 5 DATE : DEC,01,2005
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OPTICAL CONNECTOR

1. Features

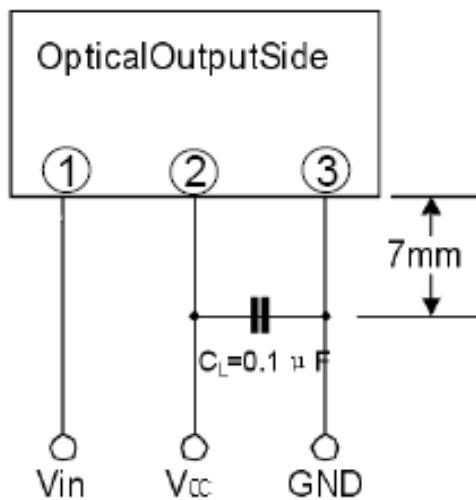
- (1) Conform to EIAJ standard CP-1201 (for digital audio interfaces including fiber optic inter-connections)
- (2) Input TTL compatible
- (3) +3V ~ +5V single power source
- (4) High speed signal transmitting

2. Applications

- (1) Digital audio equipment
- (2) MD players
- (3) DVD& CD players
- (4) Automobile

3. Absolute Maximum Ratings

USING METHOD



Characteristic	Symbol	Rating	Unit
Supply voltage	Vcc	-0.5 ~ +7.0	V
DC Input voltage	Vin	-0.5 ~ Vcc +0.5	V
Operating temperature	Topr	-20 ~ +70	°C
Storage temperature	Tstg	-40 ~ +70	°C
Soldering temperature	Tsol	260 *	°C

* Soldering time $\leq 10s$.

核 示	審 核	確 認	作 成
陳家賢	黃貞智	蔡政霖	陳鳳玉

仕様書 SPECIFICATION

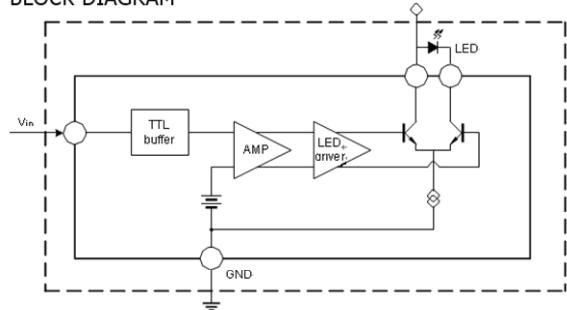
CUSTOMER MODEL NO. / TITLE OPTICAL TRANSMITTER JACK	SPECIFICATION NO. LOC0701T-16 系列 LOC0701TA-16 系列	PAGE : 2 OF 5 DATE : DEC,01,2005
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4. Electro-optical Characteristics

(Tamb=25°C)

Characteristics	Symbol	Test condition	Min.	Typ.	Max.	Unit
Operating Voltage	VCC	Low Voltage	2.75	3.00	3.25	V
		High Voltage	4.75	5.00	5.25	V
Peak Emission Wavelength	λp		640	660	670	nm
Transmission Speed		NRZ signal	DC	--	16	Mbps
Transmission Distance		Using APF	0.2	--	20	m
Fiber Coupling Light Output	Pf	*1	-21	-17	-15	dBm
Dissipation Current	ICC	*2	--	6	10	mA
High Level Input Voltage	VIH		2.0	--	--	V
Low level Input Voltage	VIL		--	--	0.8	V
Rise Time	tr	*3		30	40	ns
Fall Time	tf	*3		25	40	ns
Low To High Delay Time	TPLH	*3	--	--	155	ns
High To Low Delay Time	TPHL	*3	--	--	145	ns
Pulse Width Distortion	Δtw	6 Mbps NRZ signal	-30	--	30	ns

BLOCK DIAGRAM



5. Mechanical Characteristics

Parameter	Symbol	MIN.	TYP.	MAX.	Unit
5.1 Insertion force. Withdrawal force.	-	4	-	40	N

5.2 Repeated operation

Inserting and withdrawing shall be made at a speed of 20 times or less/min using mating plug (Refer to page 5) 500 times.

5.3 Strength of tapping part

The tapping part shall be capable of a torque of 8kgf-cm for 5 seconds by TP3 ×8 tapping tight screw and panel (t=0.8), the jack shall not be broken.

核 示	審 核	確 認	作 成
陳家賢	黃貞智	蔡政霖	陳鳳玉

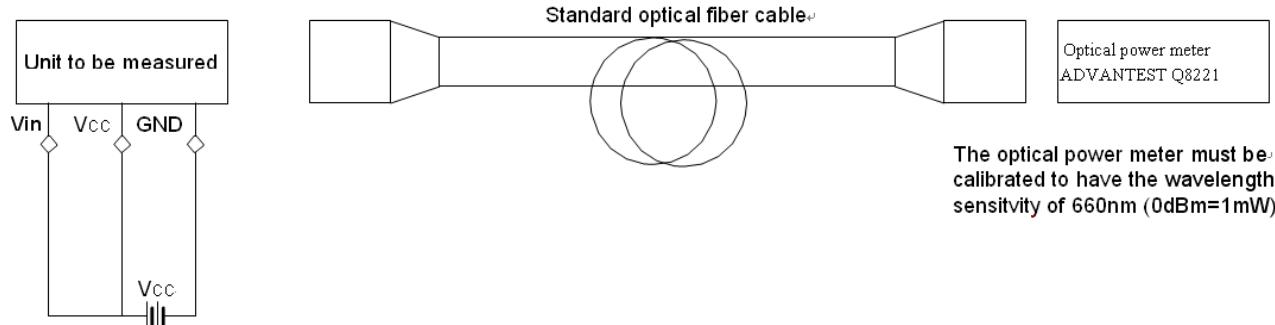
仕樣書 SPECIFICATION

CUSTOMER MODEL NO. / TITLE
OPTICAL TRANSMITTER JACK

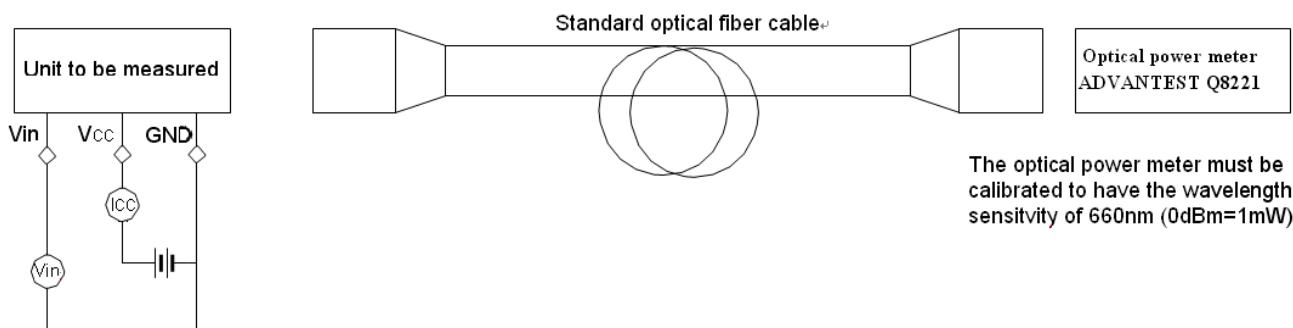
SPECIFICATION NO.
LOC0701T-16 系列
LOC0701TA-16 系列

PAGE : 3 OF 5
DATE : DEC,01,2005

*1 Measuring method of optical output coupling fiber



*2 Input voltage/power dissipation measuring method



NOTE:

1. Standard fiber optical cable (POF,1m)
2. The optical power meter must be calibrated to have the wavelength sensitivity of 660nm.(0dBm=1Mw)
3. To bundle up the standard fiber cable, make it into a loop with the diameter of 10cm or more.
4. Vcc=5.0V±0.05V(Operating)

Measuring method of direct current		
Item	Symbol	Measuring method
Fiber coupling light out	Pc	Light power meter
Current consumption	Icc	Current Meter
High level input voltage	Vih	Judge whether fiber coupling light output is within $-21 \leq \text{Pc} \leq -15 \text{dBm}$
Low level input voltage	Vil	Judge whether fiber coupling light output is under $\text{Pc} \leq -36 \text{dBm}$

核 示	審 核	確 認	作 成
陳家賢	黃貞智	蔡政霖	陳鳳玉

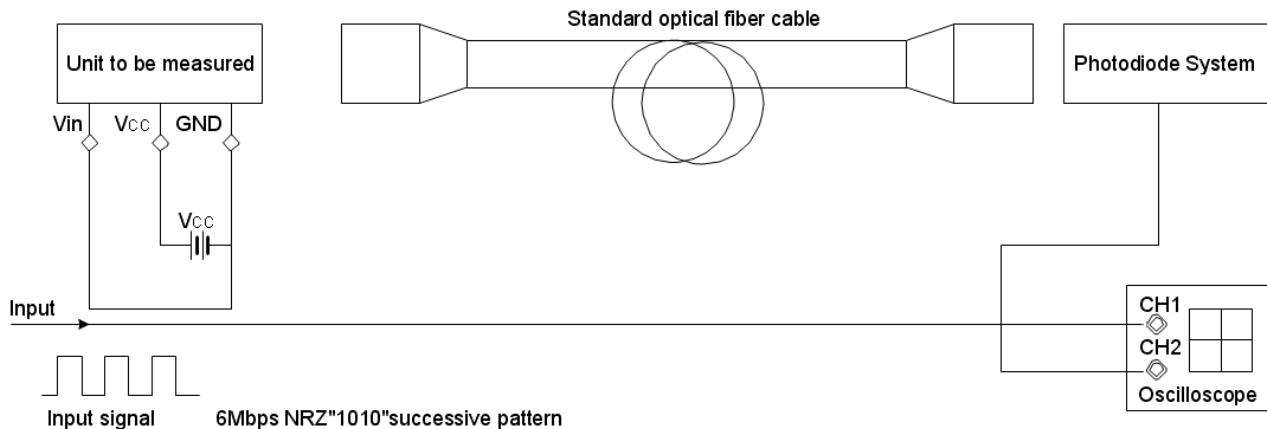
仕様書 SPECIFICATION

CUSTOMER MODEL NO. / TITLE
OPTICAL TRANSMITTER JACK

SPECIFICATION NO.
LOC0701T-16 系列
LOC0701TA-16 系列

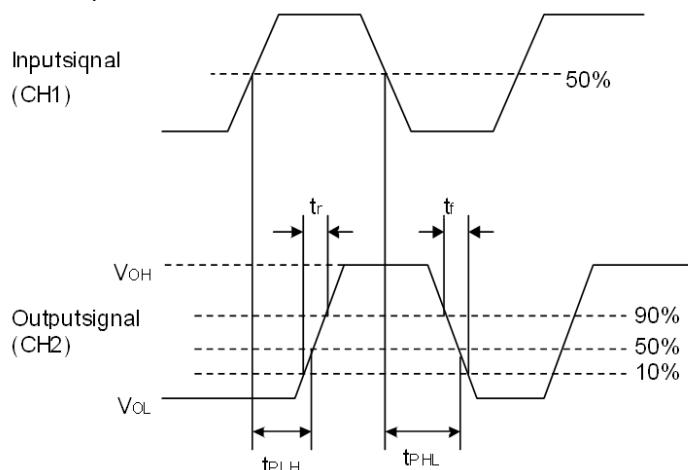
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DATE : DEC,01,2005

*3 Pulse response measuring method



NOTE :

1. Status of operating: $V_{CC}=5.00V \pm 0.05V$
2. Input signal: 6Mbps NRZ signal $V_{IH} \geq 2.0V, V_{IL} \leq 0.8V, T_r, T_f \leq 6ns$
3. Standard fiber optical cable(POF,1m)
4. To bundle up the standard fiber cable, make it into a loop with the diameter of 10cm or more.



Pulse Measuring

Item	Symbol
L->H Delay time	t_{PLH}
H->L Delay time	t_{PHL}
$\Delta t_w = t_{PHL} - t_{PLH}$	Δt_w

Jitter Measuring

Item	Symbol	Measuring method
Rise jitter	$\triangle t_{jr}$	Set the trigger on the rise of input signal to measure the jitter of the rise of output.
Fall jitter	$\triangle t_{jf}$	Set the trigger on the fall of input signal to measure the jitter of the fall of output.

核示	審核	確認	作成
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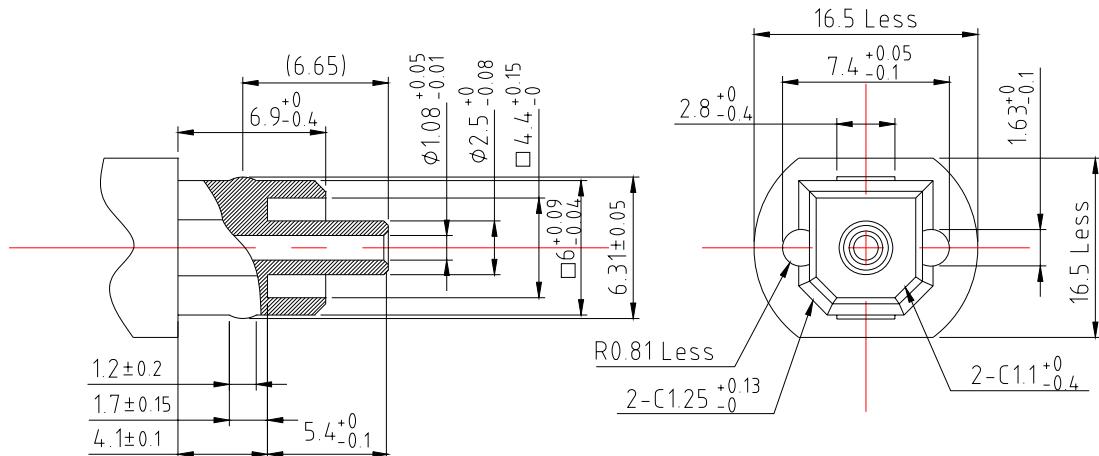
仕樣書 SPECIFICATION

CUSTOMER MODEL NO. / TITLE
OPTICAL TRANSMITTER JACK

SPECIFICATION NO.
LOC0701T-16 系列
LOC0701TA-16 系列

PAGE : 5 OF 5
DATE : DEC,01,2005

Mating plug



Unit:mm

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