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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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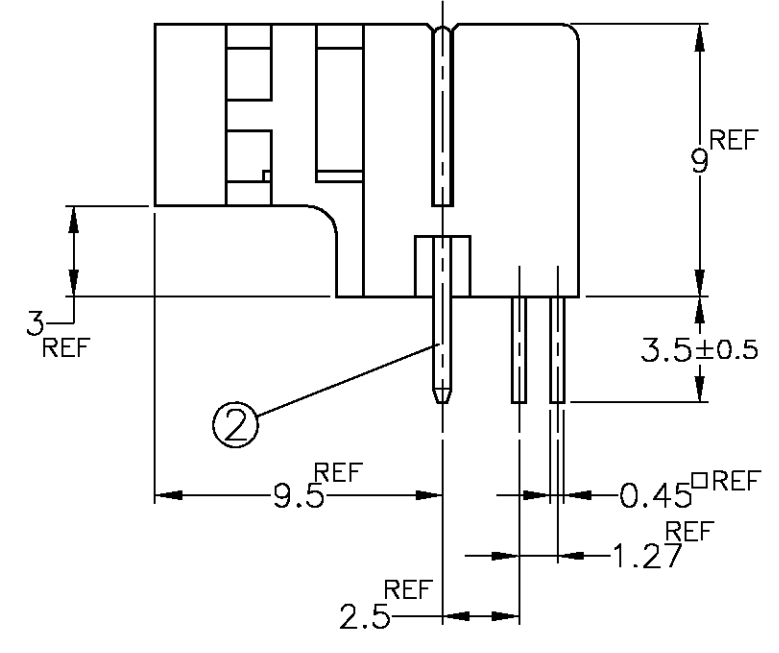
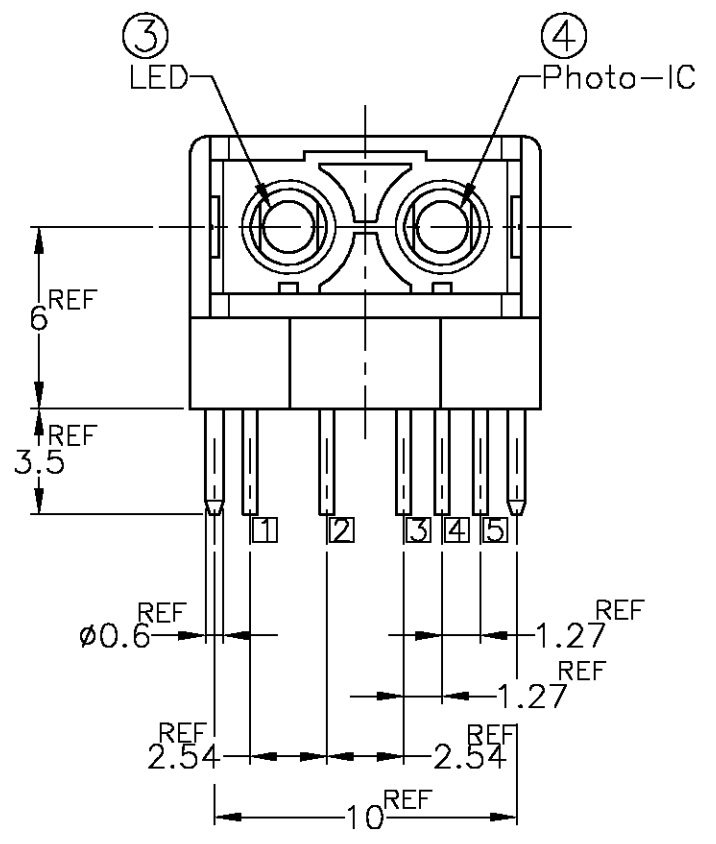
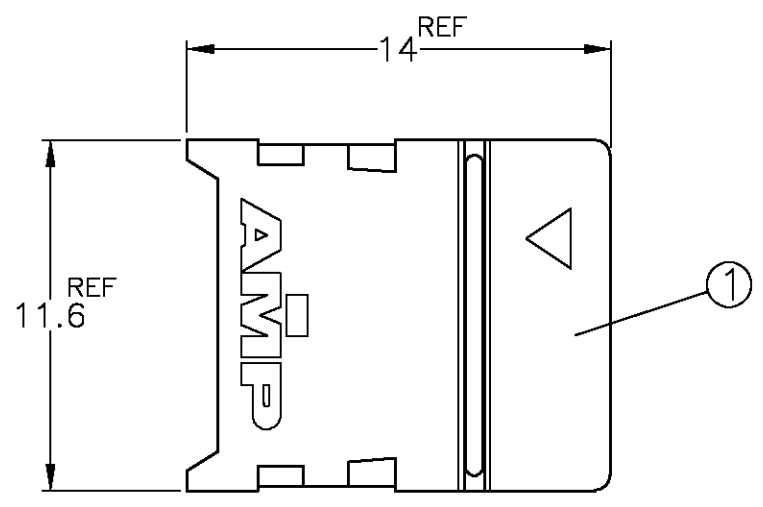
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



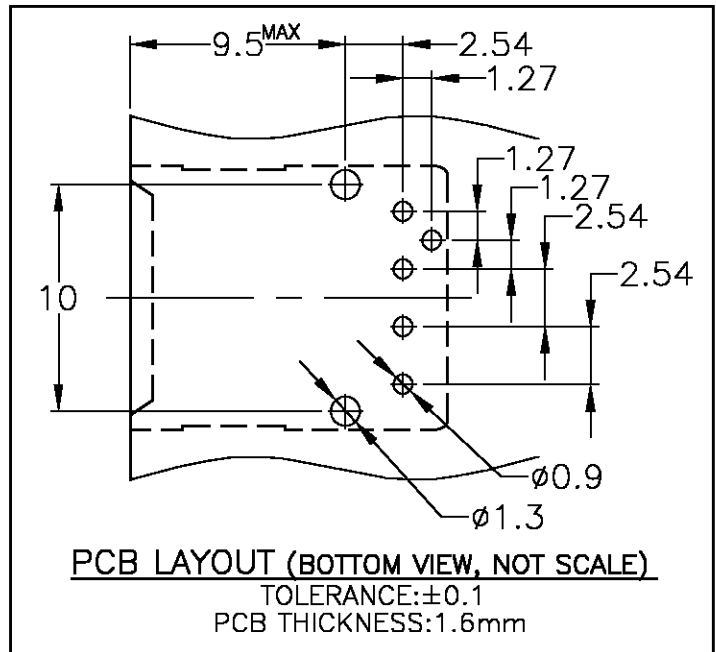
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LOC	DIST	REVISIONS					
J	—	P	LTR	DESCRIPTION	DATE	DWN	APVD
			A	RELEASED	01APR05	T.K	T.H

①	ANODE
②	CATHODE
③	GND
④	Vout
⑤	Vcc
△	POLARIZATION



- MATERIAL
ADM MOLD: THERMOPLASTIC (熱可塑性樹脂)
SOLDERING POST: Pre-TIN BRASS (すずメッキ付黄銅)
- POLARIZATION: SEE ABOVE TABLE (極性)
- DEVICE PERFORMANCE: SEE SHEET 2 OF 2 (性能)
- THE CONDITION OF WASHING OFF FLUX (フラックス洗浄条件)
WASHING TIME: 30sec MAX. (洗浄時間)
SOLVENTS TEMPERATURE: 45°C MAX. (薬品温度)
USABLE SOLVENTS: (使用薬品)
ETHYL ALCOHOL (エチルアルコール)
METHYL ALCOHOL (メチルアルコール)
ISOPROPYL ALCOHOL (イソプロピルアルコール)
- OPERATING TEMP: -25~85°C (動作温度)
- STORAGE TEMP: -40~85°C (保存温度)



1	Photo-IC	④	5178670-1
1	LED	③	
1	SOLDERING POST	②	
1	ADM HSG	①	
QTY	PART NAME	ITEM	PART No.
COMPONENT PARTS			

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN T.KIKUTA 01APR05	Tyco Electronics AMP K.K. Kawasaki, Japan	
DIMENSIONS: 単位: 耗 mm		CHK T.HAYASHI 01APR05	NAME T.HAYASHI 01APR05	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 一般公差		PRODUCT SPEC 製品規格	Duplex 20kbps Data-Link Module AMP OPTIMATE Mini-DNP CONN.	
0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± - 4 PLC ± - ANGLES ± 1'		APPLICATION SPEC 取付適用規格	SIZE A3	CAGE CODE 00779
MATERIAL 材料 SEE TABLE		WEIGHT 1.33g	DRAWING NO 番号 C-5178670	RESTRICTED TO
CUSTOMER DRAWING			SCALE 尺度 4:1	SHEET 1 OF 2

LOC	DIST	REVISIONS		
J	—	P	LTR	DESCRIPTION
				DATE
				DWN
				APVD
SEE SHEET 1				

DEVICE PERFORMANCE: LED

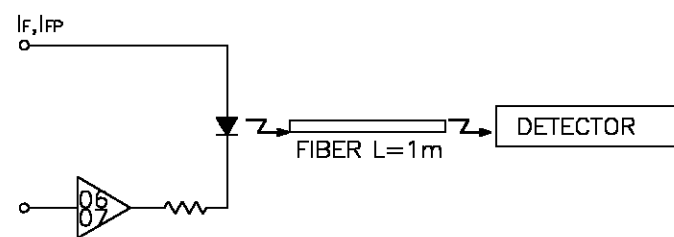
ABSOLUTE MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Storage ambient temperature	Tstg	-40~85	°C
Operating temperature	Topr	-25~85	°C
Power dissipation	P Max	90	mW
Forward current (DC)	IF	60	mA
Pluse forward current Δ	IFP	500	mA
Reverse voltage	VR	5	V
Soldering condition	Tsol	260°C, 3sec	

OPT-ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Minimum fiber coupled power	Pf	Δ IF=30mA	-20.0	-19.4	--	dBm
		Δ IF=30mA	-17.0	--	--	dBm
		Δ IF=30mA	-14.5	--	--	dBm
Maximum fiber coupled power	Pf	Δ IFP=30mA	--	--	-9.5	dBm
		Δ IFP=30mA	--	--	-6.0	dBm
		Δ IFP=30mA	--	-5.0	-4.0	dBm
Peak emission wavelength	λp		--	660	--	nm
Spectral half width	$\Delta \lambda$		--	20	--	nm
Reverse current (DC)	IR	VR=5V	--	--	10	μ A
Forward voltage (DC)	VF	IF=30mA	--	2.0	2.5	V
Rise time	tr	IFP=30mA	--	--	300	ns
Fall time	tf	IFP=30mA	--	--	300	ns
Capacitance between terminal	Ct	VR=0V, f=1MHz	--	30	--	pF

TEST CIRCUIT (FIBER COUPLED POWER)



DEVICE PERFORMANCE: Photo-IC (Normally High)

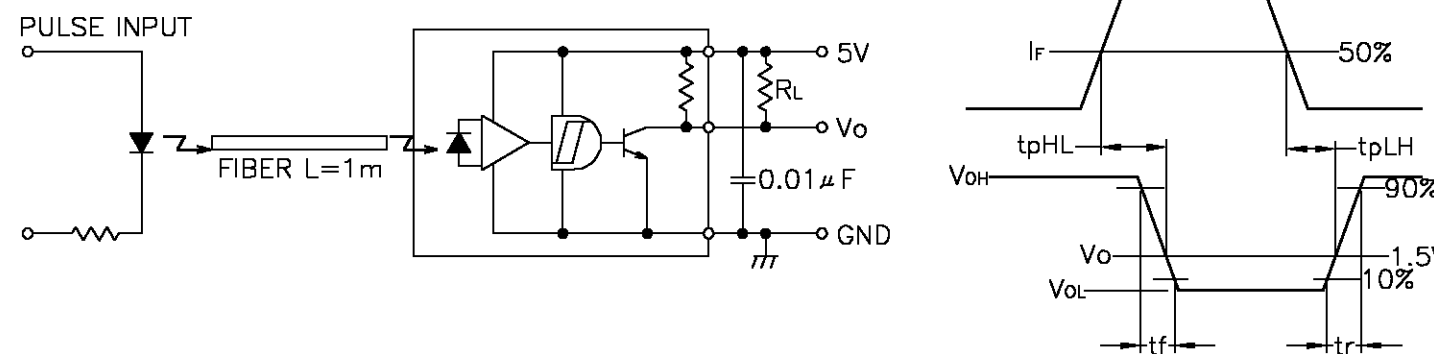
ABSOLUTE MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Storage ambient temperature	Tstg	-40~100	°C
Operating temperature	Top	-25~85	°C
Supply voltage	Vcc	7	V
Power dissipation		80	mW
Low level output current	IoL	16	mA
Soldering condition	Tsol	260°C, 3sec	

OPT-ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Maximum receiving power	Pmax	Δ Δ	-6.0	-5.0	--	dBm
		Δ Δ	-6.0	-5.0	--	dBm
		Δ Δ	-6.0	-5.0	--	dBm
Minimum receiving power	Pmin	Δ Δ	--	-27.4	-26.5	dBm
		Δ Δ	--	-27.4	-26.5	dBm
		Δ Δ	--	-27.4	-26.5	dBm
High level supply current	Icch	Vcc=5V, Pf=0	--	1.3	3.0	mA
Low level supply current	Iccl	Vcc=5V, Pf=Pmax	--	1.5	3.0	mA
High level output voltage	VoH	Vcc=5V, Pf=0	4.8	--	--	V
Low level output voltage	VoL	Vcc=5V, IoL=4mA, Rf=Pmax	--	--	0.4	V
Rise time	tr	Pf=Pmin., RL=2.2k Ω	--	--	1.0	μ s
Fall time	tf	Pf=Pmin., RL=2.2k Ω	--	--	1.0	μ s
Supply voltage	Vcc		2.2	--	7.0	V

TEST CIRCUIT (SWITCHING TIME)



- Δ POF (485/500 μ m) LENGTH=1m
- Δ POF (735/750 μ m) LENGTH=1m
- Δ POF (980/1000 μ m) LENGTH=1m
- Δ tw=50 μ s, Duty=50%, CL=10pF, RL=2.2k Ω
tpLH=15 μ s, tpLH=15 μ s, Δ tw=±15 μ s
- Δ tw=100 μ s, Duty=1%
- Δ tw=50 μ s, Duty=10%

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		CUSTOMER DRAWING	SCALE 尺度 4:1	SHEET 2 OF 2
			REV A	