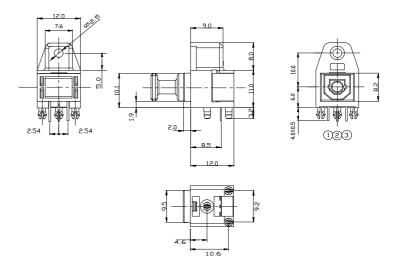
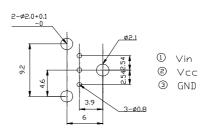
Features

Outline Dimensions

- 1.Uni-directional data transmission using plastic fiber
- 2.Signal transmission speed
 - :MAX. 13.2Mbps (NRZ signal)
- 3. Operating voltage: 2.75 to 5.25 V
- 4.TTL and high speed C-MOS LOGIC IC compatible



Recommended drilling as viewd from the soldering face



NOTES:

Tolerance is ± 0.3 mm unless otherwise noted.

Absolute Maximum Ratings

laximum Ratings			$@TA=25^{\circ}C$
Parameter	Symbol	Rating	Unit
Supply voltage	V_{cc}	-0.5 to + 7.0	V
Input voltage	V_{in}	-0.5 to Vcc +0.5	V
Operating temperature	$T_{ m opr}$	-20 to +70	°C
Storage temperature	$\mathrm{T_{stg}}$	-30 to +80	°C
Soldering temperature *1	$T_{\rm sol}$	260	°C

^{*1} For 5s (2 times or less)

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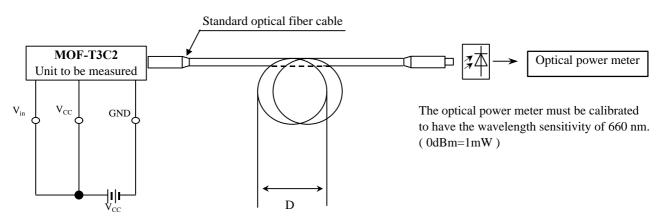
Recommended Operating Conditions

Parameter	Symbol	MIN.	TYP.	MAX.	Unit
Operating supply voltage	V_{cc}	2.75		5.25	V
Operating transfer rate	T			13.2	Mbps

Electro-Optical Characteristics

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Peak emission wavelength	$\lambda_{ m p}$		630	660	690	nm
Optical power output coupling with fiber	P_{c}	Refer to Fig. 1	-21	-18	-15	dBm
Dissipation current	I_{cc}	Refer to Fig. 2		8	13	mA
High level input voltage	V_{iH}	Refer to Fig. 2	2.1		V_{cc}	V
Low level input voltage	V_{iL}	Refer to Fig. 2			0.8	V
Low High delay time	t _{pLH}	Refer to Fig. 3		100	180	ns
High Low delay time	t_{pHL}	Refer to Fig. 3		100	180	ns
Pulse width distortion	$\Delta_{ m tw}$	Refer to Fig. 3	-15		+15	ns

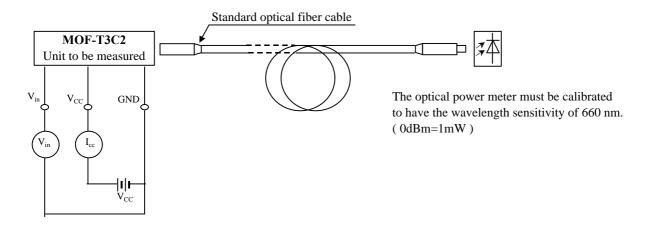
Fig. 1 Measuring Method of Optical Output Coupling with Fiber



Notes (1)Vcc=5.0V (State of operating)

(2)To bundle up the standard fiber optic cable, make it into a loop with the diameter D=10cm or more.

Fig. 2 Measuring Method of Intput Voltage and Supply Current



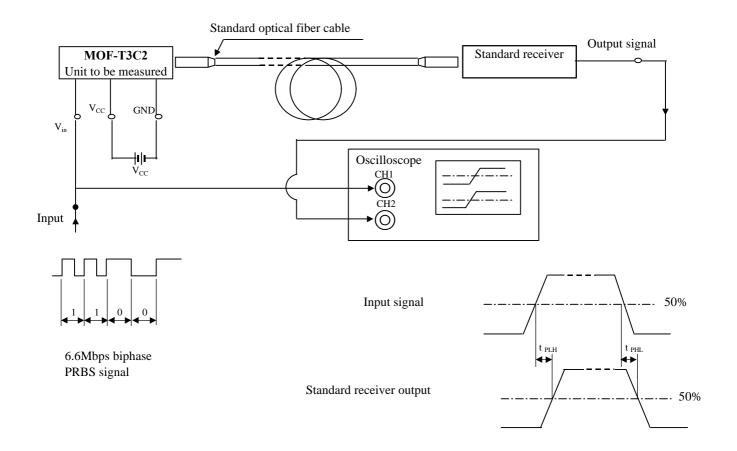
Input conditions and judgement method

Conditions	Judgement method		
V _{in} =2.1V or more	-21dBm<=Pc<=-15dBm, Icc=13mA or less		
V _{in} =0.8V or less	Pc<=-36dBm, Icc=13mA or less		

Note: V_{cc}=5.0V (State of operating)

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Fig.3 Measuring Method of Pulse Response



Test item

Test item	Symbol	Test condition
Low High pulse delay time	t _{PLH}	Refer to the above prescriptions
High Low pulse delay time	t _{PHL}	Refer to the above prescriptions
Pulse width distortion	Δtw	$\Delta tw = t_{PHL} - t_{PLH}$

Notes (1) The waveform write time shall be 4 seconds. But do not allow the waveform to be distorted by increasing the brightness too much.

- (2) Vcc=5.0 V (State of operating)
- (3) The probe for the oscilloscope must be more than 1M and less than 10pF.

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