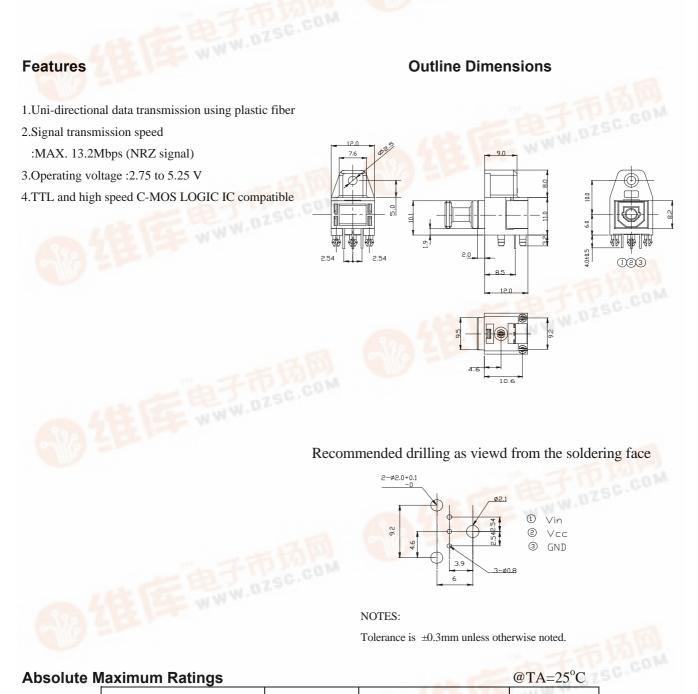
Fiber Optic Transmitter

MOF-T3C2



Absolute Maximum Ratings

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 _{opr}	-20 to +70	°C
Storage temperature	T _{stg}	-30 to +80	°C
Soldering temperature *1	T _{sol}	260	°C

*1 For 5s (2 times or less)



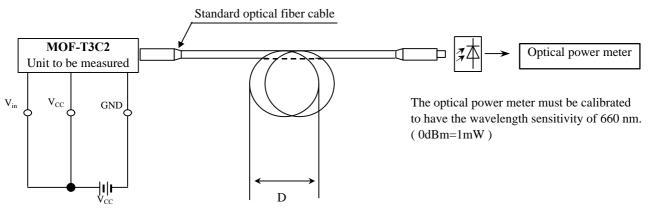
Recommended Operating Conditions

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

Electro-Optical Characteristics

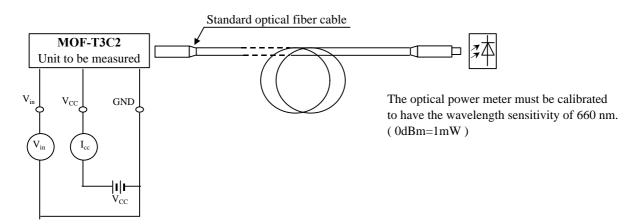
Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Peak emission wavelength	$\lambda_{ m p}$		630	660	690	nm
Optical power output coupling with fiber	P _c	Refer to Fig. 1	-21	-18	-15	dBm
Dissipation current	I _{cc}	Refer to Fig. 2		8	13	mA
High level input voltage	V _{iH}	Refer to Fig. 2	2.1		V _{cc}	V
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	Δ_{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

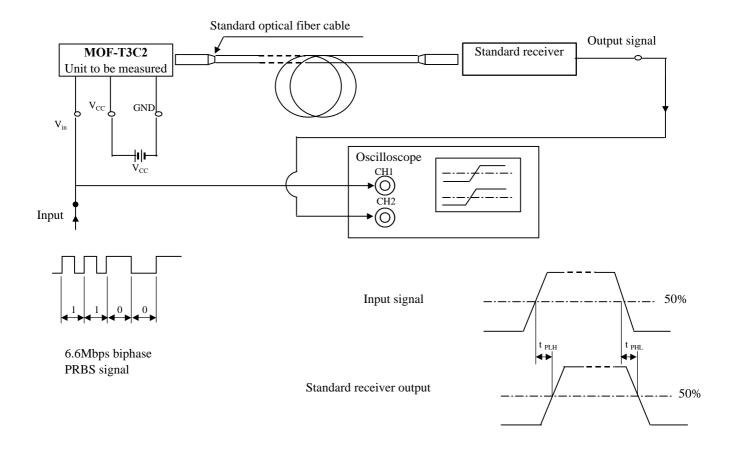


Input conditions and judgement method

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)

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.