

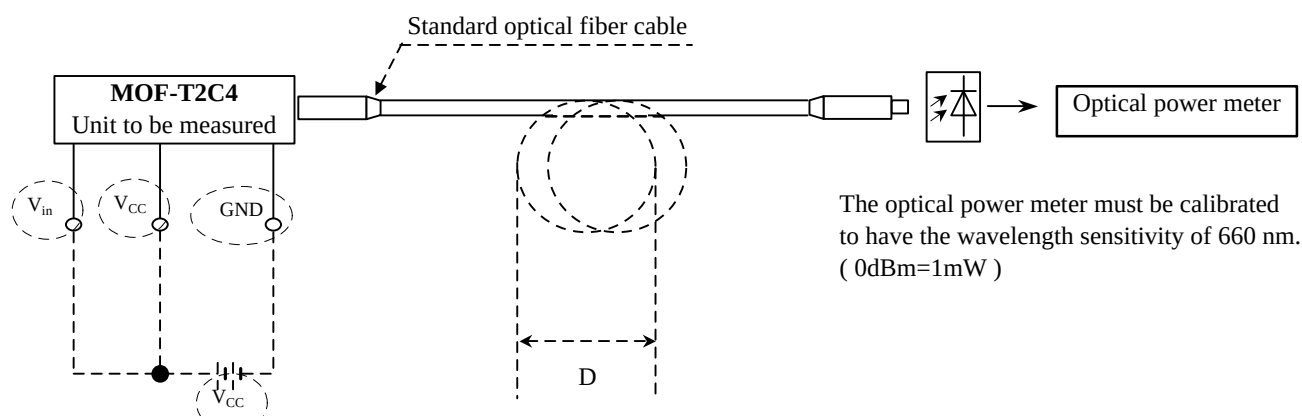
Recommended Operating Conditions

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	λ_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	2.0	---	V _{cc}	V
Low level input voltage	V _{iL}	Refer to Fig. 2	---	---	0.8	V
Low to High delay time	t _{pLH}	Refer to Fig. 3	---	100	180	ns
High to Low delay time	t _{pHL}	Refer to Fig. 3	---	100	180	ns
Pulse width distortion	Δ_{tw}	Refer to Fig. 3	-15	---	+15	ns

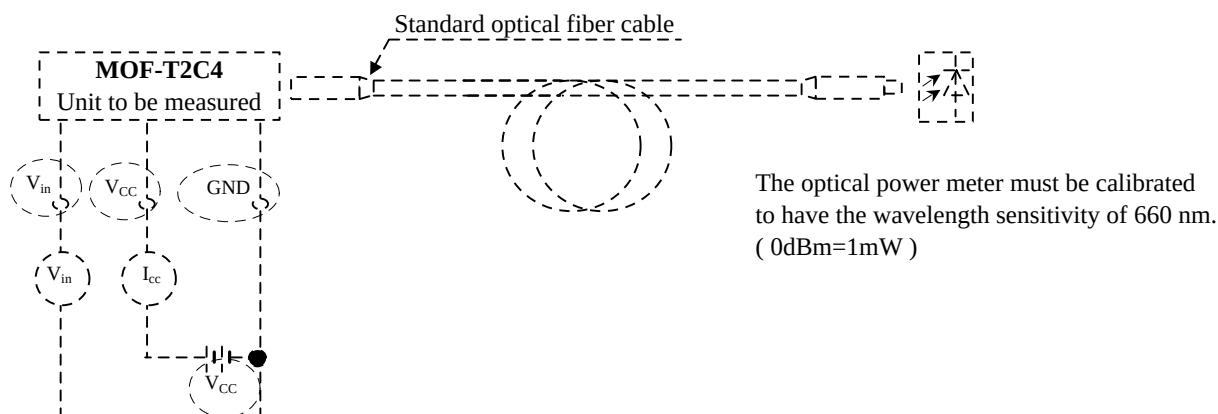
Fig. 1 Measuring Method of Optical Output Coupling with Fiber



Notes (1)V_{cc}=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 Input Voltage and Supply Current

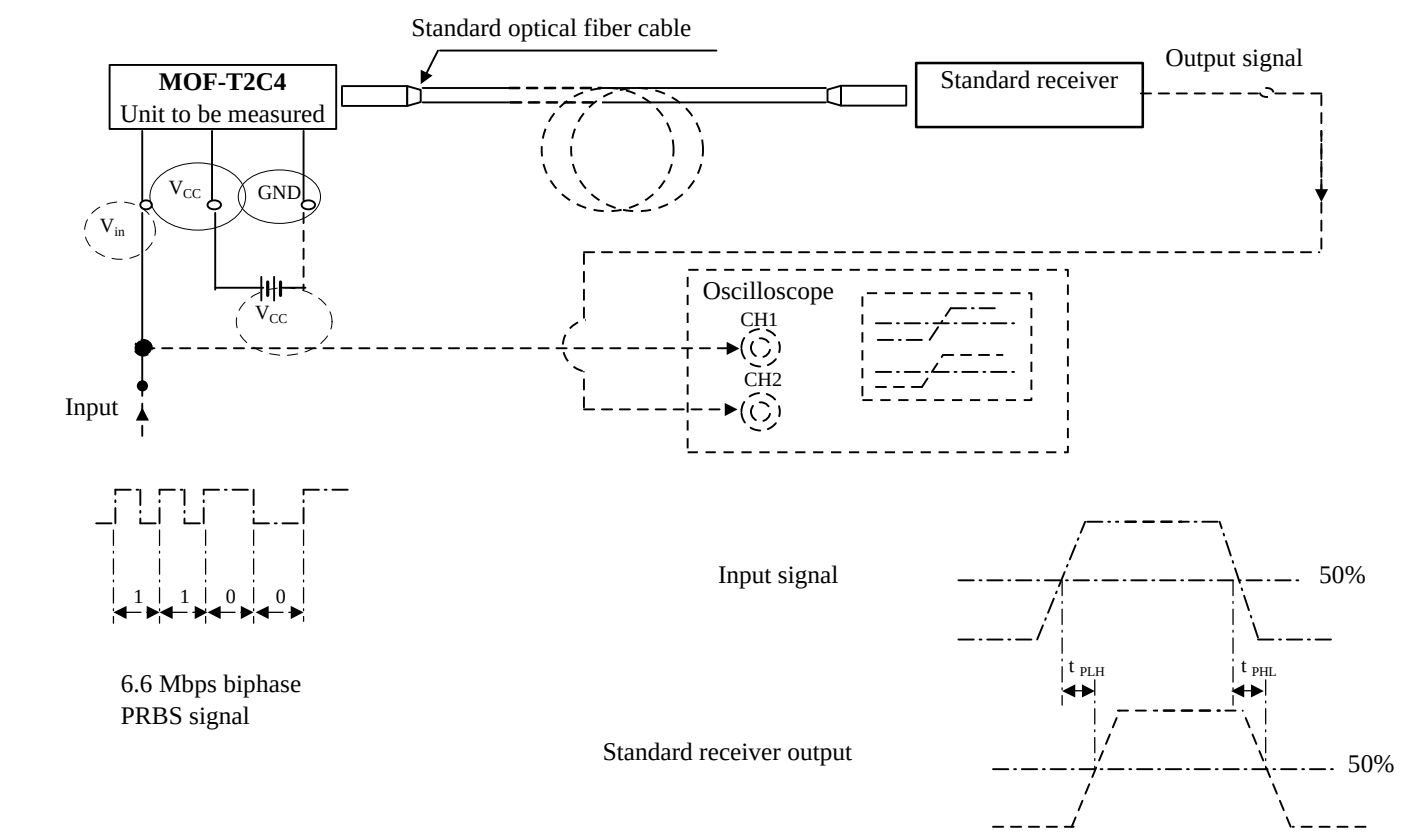


Input conditions and judgement method

Conditions	Judgement method
V _{in} =2.0V or more	-21dBm<=P _c <=-15dBm, I _{cc} =13mA or less
V _{in} =0.8V or less	P _c <=-36dBm, I _{cc} =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 to High pulse delay time	t _{PLH}	Refer to the above prescriptions
High to Low pulse delay time	t _{PHL}	Refer to the above prescriptions
Pulse width distortion	Δtw	Δtw=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) V_{cc}=5.0 V (State of operating)
 - (3) The probe for the oscilloscope must be more than 1M and less than 10pF.