

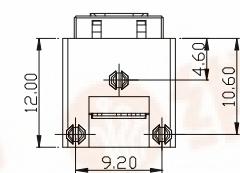
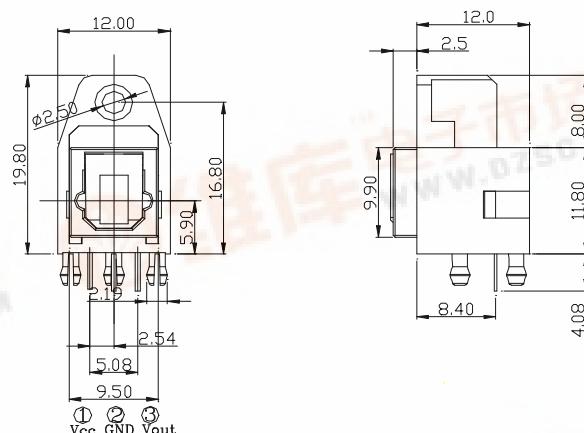
Fiber Optic Receiver

MOF-R3K5

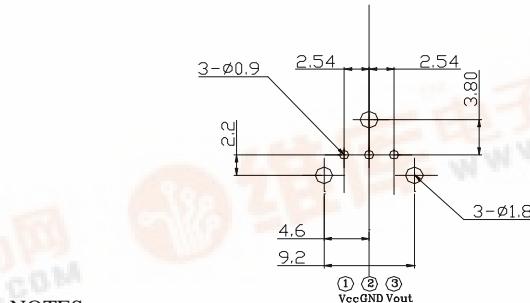
Features

- 1.Uni-directional data transmission using plastic fiber
- 2.Signal transmission speed
:MAX. 6 Mbps (NRZ signal)
- 3.Operating voltage :4.75 to 5.25 V
- 4.TTL compatible
- 5.Suitable for MOF-T3K5 Transmitter

Outline Dimensions



Recommended drilling as viewed from the soldering face



NOTES:

Tolerance is $\pm 0.3\text{mm}$ unless otherwise noted.

Absolute Maximum Ratings

@ $T_A=25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Supply voltage	V_{cc}	-0.5 to + 7	V
High Level Output Current	I_{OH}	-1	mA
Low Level Output Current	I_{OL}	5	mA
Operating temperature	T_{opr}	-20 to +70	°C
Storage temperature	T_{stg}	-30 to +80	°C
Soldering Temperature	T_{SOL}	260*	°C

* For 5s (1 times or less)

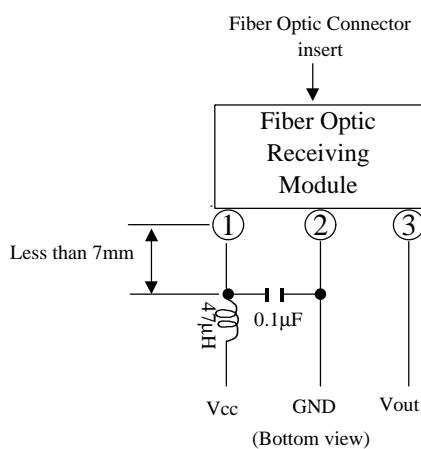
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Recommended Operating Conditions

Parameter	Symbol	MIN.	TYP.	MAX.	Unit
Operating supply voltage	V _{cc}	4.75	5.0	5.25	V
Operating transfer rate	T	0.1	---	6	Mbps
receiver input optical power level	P _c	-22	---	-14.5	dBm

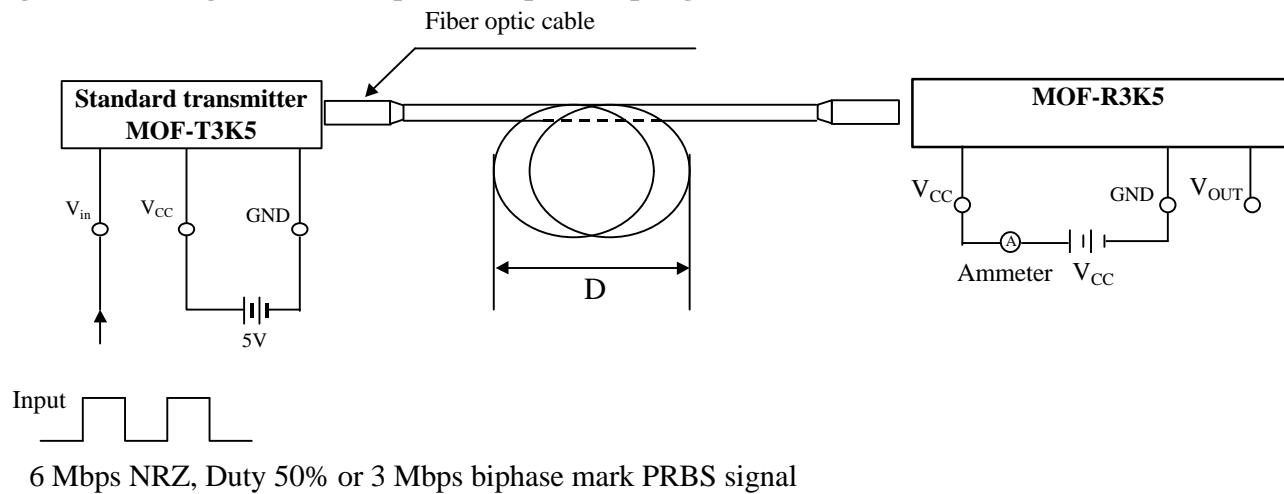
Recommended Connection Method



Electro-Optical Characteristics

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Dissipation current	I _{cc}	Refer to Fig. 1	---	20	40	mA
High level output voltage	V _{OH}	Refer to Fig. 2	2.7	4.4	---	V
Low level output voltage	V _{OL}	Refer to Fig. 2	---	0.2	0.4	V
Rise time	t _r	Refer to Fig. 2	---	20	40	ns
Fall time	t _f	Refer to Fig. 2	---	20	40	ns
Low High delay time	t _{pLH}	Refer to Fig. 2	---	---	180	ns
High Low delay time	t _{pHL}	Refer to Fig. 2	---	---	180	ns
Pulse width distortion	Δ _{tw}	Refer to Fig. 2	-30	---	+30	ns

Fig. 1 Measuring Method of Optical Output Coupling with Fiber



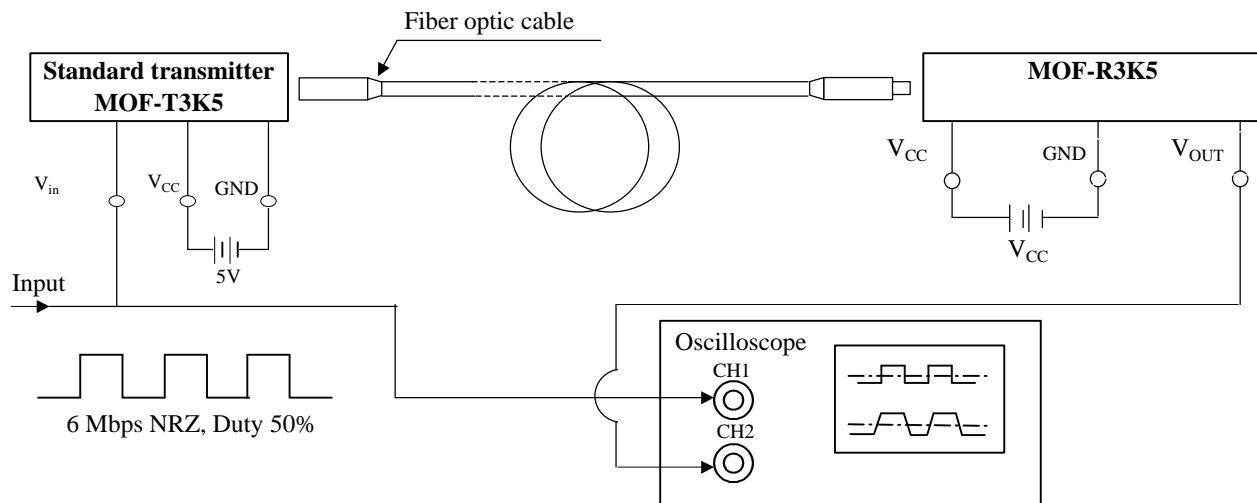
Notes (1) $V_{CC}=5.0V$ (State of operating)

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

(3) $P_c = -14.5 \text{ dBm}$

(4)Measured on an ammeter.

Fig. 2 Measuring Method of Output Voltage and Pulse Response



Test item

Test item	Symbol
Low High pulse delay time	t_{PLH}
High Low pulse delay time	t_{PHL}
Rise time	t_r
Fall time	t_f
Pulse width distortion $tw = t_{PHL} - t_{PLH}$	tw
High level output voltage	V_{OH}
Low level output voltage	V_{OL}

