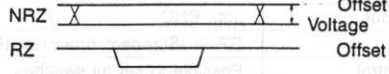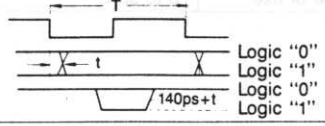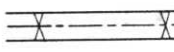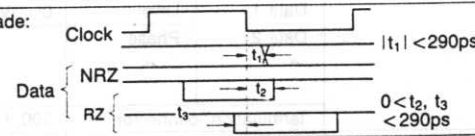## 2.2 Specifications

Tables 2-3 and 2-4 list the specifications of the MH676A Multiplexer and MH677A Demultiplexer.

Table 2-3 MH676A Multiplexer Specifications

Input	Operating frequency		350MHz to 700MHz
	Clock	Waveform	Clock: RZ (Duty: 45 to 55% or less), data: NRZ
	Data 1	Level	0/−1V ±0.1V or less
	Data 2	Phase	
	Termination, connector		50Ω, BNC
Output	Operating frequency		Frequency which is two times as large as input clock
	Clock	Waveform	Clock: RZ*, Data: NRZ, RZ* (*Duty: 45 to 55% or less)
	Data	Voltage	1 to +3V/0.05V step (however, indication is made in a step of 0.1V)
		Offset	−1 to +4V/0.05V step (however, indication is made in a 0.1V step)
		Level error	Voltage and offset within the larger one of set value ±10% or ±0.15V
		Phase Logic	
	Load, connector		50Ω, N
Remote control	Interface		GP-IB (Standard provision, IEEE Std. 488-1978) RS-232C (Option)
	Details of control		Possible to set all switches
Dimensions and weight			215H, 95W, 446Dmm, 5kg or less
Ambient temperature, rated range of use			0 to 50°C

Option 12: RS-232C

Table 2-4 MH677A Demultiplexer Specifications

Input	Operating frequency		700MHz to 1.4GHz
	Clock	Waveform	Clock: RZ*, Data: NRZ, RZ* (*Duty: 45 to 55% or less)
	Data	Voltage	1 to 3V
		Offset	−1 to +4V
		Threshold value (Data)	−2.5 to +3.5V/0.05V step (however, indication is made in a 0.1V step) Threshold value $= \dfrac{V_1 + V_2}{2}$
		Adjustment on phases (Clock)	+500 to −500 ps, variable in step
		Phases between clock and data	When the abovementioned phase adjustment is made: Clock / NRZ / RZ $|t_1| < 290\text{ps}$, $0 < t_2, t_3 < 290\text{ps}$
	Termination, connector		50Ω, N
Output	Operating frequency		½ Frequency of input clock (350MHz to 700MHz)
	Clock Data 1 Data 2	Waveform	Clock: RZ (Duty: 45 to 55% or less), Data: NRZ
		Level	0/−1V ±0.1V or less
	Load, connector		50Ω, BNC
Remote control	Interface		GP-IB (Standard provision, IEEE Std. 488-1978) RS-232C (Option)
	Details of control		Possible to set all switches
Dimensions and weight			215H, 95W, 446Dmm, 5kg or less
Ambient temperature, rated range of use			0 to 50°C

Option 13: RS-232C