Taiko Device Techno & Co.,Ltd. **TB2 / HTB2 RELAY SPECIFICATIONS**

ITEM		SPECIFICATION
Contact Arrangement		1Form C x 2 (H-Bridge)
(TB2-Z / HTB2-Z type)		1Form C x 2 (1T×2 ; Separate type)
Contact Material		$AgSnO_2$ Alloy
Contact Resistance		Max 50mΩ (6VDC 1A voltage drop method)
Contact Rated Load		25A @ 14VDC Motor load/ Locked Rotor
Max. Switching Current/ Voltage		30 A 16VDC
Max. Carrying Current		25 A @ 14VDC for 10 minutes at 20℃
Min. Switching Current		1A 12VDC
Dielectric Strength		500VAC for 1minute (between coil and contact)
		500VAC for 1minute (between open contacts)
Insulation Resistance		Min 100MΩ (at 500VDC)
Operate Time		Max 10ms (at rated voltage)
Release Time		Max 10ms (at rated voltage)
Shock	False Operation	Min 98m/s^2 (10G) :Shock wave 11ms
	Endurance	Min 980m/s^2 (100G) :Shock wave 11ms
Vibration	False Operation	10 to 500Hz 43m/s^2 (4.4G)
	Endurance	10 to 500Hz 43m/s^2 (4.4G)
Mechanical Life		10×10^6 Operations or more (300 cycles/minute)
Electrical Life		0.1 x 10^6 Operations or more 14VDC 25A P/W Motor Load/ Locked Rotor (0.5 sec. ON/ 9.5 sec. OFF)

Coil Rating at 20℃ Ambient Temperature	Part Number	Rated Voltage	Coil Resistance (＋－10%)	Pull-in Voltage	Drop-out Voltage
	(H)TB2-160(Z)	12VDC	160Ω	6.5V	0.8V
	(H)TB2-100(Z)	12VDC	100Ω	5.5V	0.5V
	(H)TB2-225(Z)	12VDC	225Ω	7.7V	0.8V

Ambient Temperature/ Humidity	-40℃ to ＋85℃, 85%RH or less
Weight	Approx. 9.5grms

External Dimensions / Wiring Diagram / PCB Pin Layout

Fig.1. External dimensions

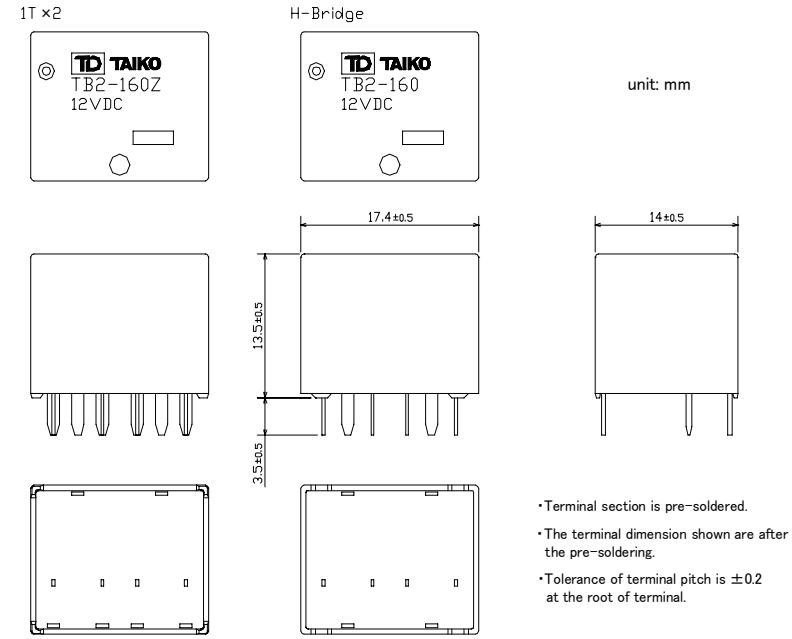


Fig.2. Wiring diagram (BOTTOM VIEW)

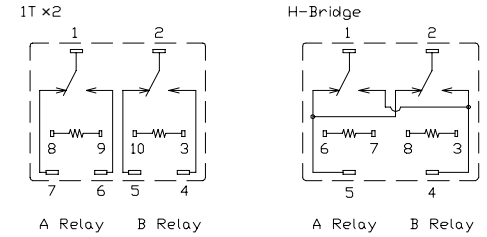
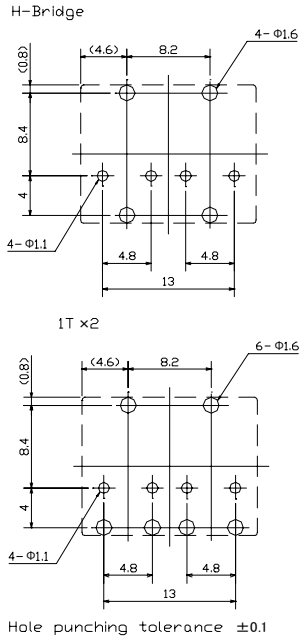


Fig.3. PCB pin layout (Reference figure) (BOTTOM VIEW)



* The above specifications are tentative and subject to change.