













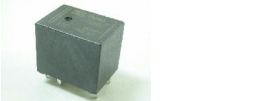

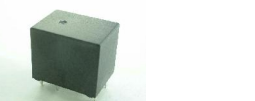


## TAIKO DEVICE Miniature PCB Relays for AUTOMOTIVE APPLICATIONS

TYPE		TA	TB									
SERIES		TA1	TB1	HTB1	RTB1	TB1/HTB1/RTB1 Lamp load type			TB1 Flasher type (TB1-100MF)	TB2	HTB2	RTB2
Appearance												
Dimensions	Height (mm)	14.0	13.5		14.0	13.5		14.0	13.5	13.5		14.0
	Base Area (mm×mm)	17.0×19.8	9.2×14.0			9.2×14.0			9.2×14.0	14.0×17.4		
Net Weight (g)		8	5			5			5	9.5		
Contact	Contact Configuration	1 Form C	1 Form A 1 Form C		1 Form A			1 Form A	2×1FormC (H-bridge, Separate)			
	Rated Load	25A 14V P/W Motor Locked	25A 14V P/W Motor Locked		52W 14VDC			23W14V Light bulb×3	25A 14V P/W Motor Locked			
	Max. Switching Current	30A 16VDC	30A 16VDC							30A 16VDC		
	Min. Switching Current	1A	1A			1A			1A	1A		
	Max. Carrying Current	25A for 3 min. at 20°C	25A for 10 min. at 20°C		25A for 10 min. at 20°C			10A for 10min. at 20°C	25A for 10 min. at 20°C			
Ambient Temperature	Min. Ambient temperature	-40°C				-40°C						
	Max. Ambient temperature	+85°C	+85°C	+125°C		+85°C	+125°C		+85°C	+85°C	+125°C	
Mechanical Life		10×10 <sup>4</sup> operations (300 cycles/min.)				10×10 <sup>4</sup> operations (300 cycles/min.)						
Electrical Life		0.1×10 <sup>4</sup> operations (at rated load)				0.1×10 <sup>4</sup> operations (at rated load)			2.55×10 <sup>4</sup> (at rated load)	0.1×10 <sup>4</sup> operations (at rated load)		
Soldering Process	Wave solder	•	•	•	•	•	•	•	•	•	•	•
	Reflowable (THRS) Reflowable (SMD)				•			•				•
Features		Silent Relay	Best seller single relay			Best seller single relay			Ultra-miniature Flasher Relay	Best seller twin relay		
		Single Relay			Pin-in-Paste available			Pin-in-Paste available		H-bridge and Separate type available		
										Motor reversible control		
												Pin-in-Paste available
Main Application		Intermittent Wiper	Power Window Door Lock			Room lamp			Flasher	Power Window		
			Roof Control						Turn Signal	Power Door Lock		
			Horn, Washer pump, etc.						Hazard Lamp	Seat Adjustment		
										Roof Control		

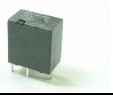









## TAIKO DEVICE Miniature PCB Relays for AUTOMOTIVE APPLICATIONS

TYPE		TC							
SERIES		TC1	TC1 Double Make contact	HTC1	HTC1 Double Make contact	RTC1	RTC1 Double Make contact	TC1L	TC1L Double Make contact
Appearance									
Dimensions	Height (mm)	16.0				16.5		16.0	
	Base Area (mm×mm)	13.0×17.8							
Net Weight (g)		10							
Contact	Contact Configuration	1 Form A 1 Form C	1 Form U	1 Form A 1 Form C	1 Form U	1 Form A 1 Form C	1 Form U	1 Form A 1 Form C	1 Form U
	Rated Load	25A 14V		25A 14V		25A 14V		25A 14V	
	Max. Switching Current	30A 16VDC		30A 16VDC		30A 16VDC		30A 16VDC	
	Min. Switching Current	1A	1A	1A	1A	1A	1A	1A	1A
	Max. Carrying Current	30A for 10 min. at 20°C		30A for 10 min. at 85°C		30A for 10 min. at 85°C		30A for 1Hour. at 20°C	
Ambient Temperature	Min. Ambient temperature	-40°C							
	Max. Ambient temperature	+125°C						+85°C	
Mechanical Life		10×10 <sup>4</sup> operations (300 cycles/min.)						1×10 <sup>4</sup> operations (300 cycles/min.)	
Electrical Life		0.1×10 <sup>4</sup> operations (at rated load)							
Soldering Process	Wave solder	•	•	•	•	•	•	•	•
	Reflowable (THRS) Reflowable (SMD)					•	•		
Features		Small high current relay						High power latching relay (Bistable relay)	
		Replacement for larger Plug-in relays						Heat reducing	
		High temperature durability						High contact reliability	
		Pin-in-Paste available							
Main Application		Power Supply Defroster							
		Head Light, Flasher Electric Power Steering						Head Light DC Output	



## TAIKO DEVICE Miniature PCB Relays for AUTOMOTIVE APPLICATIONS

TYPE		TE				TG		TH	
SERIES		TE1	RTE1	TE2	RTE2	HTG1	RTG1	RTH1	RTH2
Appearance									
Dimensions	Height (mm)	13.5	14.0	13.5	14.0	18.0	18.6	8.8	
	Base Area (mm×mm)	7.2×12.0		12.0×13.6		12.6×17.8		11.0×12.0	21.6×12.0
Net Weight (g)		3.2		6.3		12		3	6
Contact	Contact Configuration	1 Form A 1 Form C		2×1FormC (H-bridge)		1 Form A 1 Form C		1 Form A 1 Form C	2×1FormC (Separate)
	Rated Load	25A 14V P/W Motor Locked				35A 14V 150W 14V		25A 14V P/W Motor Locked	
	Max. Switching Current	30A 16VDC				40A 16VDC		30A 16VDC	
	Min. Switching Current	1A				1A		1A	
	Max. Carrying Current	25A for 2 min. at 20°C				30A for 1hour at 20°C		25A for 10 min. at 20°C	
Ambient Temperature	Min. Ambient temperature	-40°C				-40°C		-40°C	
	Max. Ambient temperature	+125°C				125°C		+125°C	
Mechanical Life		10×10□ operations (300 cycles/min.)				10×10□ (300 cycles/min.)		10×10□ (300 cycles/min.)	
Electrical Life		0.1×10□ operations (at rated load)				0.1×10□ (at rated load)		0.1×10□ (at rated load)	
Soldering Process	Wave solder	•	•	•	•	•	•	*TBC	*TBC
	Reflowable (THRS)		•		•		•	*TBC	*TBC
	Reflowable (SMD)							•	•
Features	Smallest single relay		Smallest twin relay			Small high current relay		SMD relay	
		Pin-in-Paste available	Motor reversible control (H-bridge)			Replacement for larger Plug-in relays		Low profile single relay	Low profile twin relay
				Pin-in-Paste available		Pin-in-Paste available		Motor reversible control	
Main Application		Power Window Power Door Lock Seat Adjustment Roof Control Horn, Washer pump, etc.				Power Supply Head Light Defroster		Power Window Power Door Lock Seat Adjustment Roof Control	