

Relay Selector Chart

• Products	Ultra-Miniature Low-Profile Automotive Relay	1 Form C Automotive Quiet Relay	Dual Power Quiet Automotive Relay	Half-size Automotive Relay	Automotive Ultra-Miniature Power Relay
	CP-RELAY	CQ-RELAY	CR-RELAY	JJM-RELAY	JSM-RELAY
• Type of relay mm inch	NEW 	NEW 	NEW 		Made in Mexico
• Features	<ul style="list-style-type: none"> Ultra-Miniature low profile High carrying current 35A@85C (2 min) Simple, space-saving footprint 	<ul style="list-style-type: none"> Quiet: noise reduced by approx. 20 dB Less space required measuring only 17mm(L) x 13mm(W). Ranks first among automotive quiet relays in saving space. 	<ul style="list-style-type: none"> Quiet: noise reduced by approx. 20 dB, using our own silencing design Twin (1 Form C x 2) forward/reverse motor control with one relay 	<ul style="list-style-type: none"> Compact (half-size) 25A inrush current capability 	<ul style="list-style-type: none"> Low pick-up voltage for high ambient use Universal footprint Flux resistant type available
• Sealed types availability	●	●	●	●	●
• Contact material (Optional material)	Silver alloy	Silver alloy	Silver alloy	Silver alloy	Silver alloy
• Contact rating chart (resistive)					
• Pick-up voltage (max.)	DC7.2V	DC7.2V	DC7.2V	DC7.2V	Standard DC6.3V High capacity
• Functional shock resistance	100m/s ² {10G}	100m/s ² {10G}	100m/s ² {10G}	100m/s ² {10G}	98m/s ² {10G}
• Functional vibration resistance	10~100Hz 44.1m/s ² {4.5G}	10~100Hz 44.1m/s ² {4.5G}	10~100Hz 44.1m/s ² {4.5G}	10~100Hz 44.1m/s ² {4.5G}	10~55Hz 1.6mm
• Ambient Temp.	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
• Max. switching voltage	16V DC	16V DC	16V DC	16V DC	16V DC
• Contact arrangement	1a, 1c	1c	1c x 2	1a, 1c	1a, 1c
• Life (Min. operation)	Electrical	10 ⁵	10 ⁵	10 ⁵	10 ⁵
	Mechanical	10 ⁷	10 ⁷	10 ⁷	10 ⁷
• Break-down voltage	Between open contacts	500Vrms	500Vrms	500Vrms	500Vrms
	Between contacts and coil	500Vrms	500Vrms	500Vrms	—
• Coil voltage	(DC) 12V	(DC) 12V	(DC) 12V	(DC) 12V	(DC) 9, 12V
• Nominal operating power	640mW	640mW	640mW	640mW	640mW
• Terminal layout (Bottom View) • coil terminal (.100 inch grid)					
• Mounting method					
• Page	8	11	14	17	20

Note: Meaning of symbol marks : PC board terminal; : Plug-in; : Top-mounting; : Top-mounting with PC board terminals; : Surface-mounting

Relay Selector Chart

• Products	Dual Power Automotive	30 A, DC Coil PC Board Relay	High Sensitivity 1 Form C Relay	Compact, Space-Saving Automotive Relay	High Power Automotive
	CF-RELAY	JT-N·JT-RELAY	HY-RELAY	CM-RELAY	CB-RELAY
• Type of relay <small>mm inch</small>				<i>Made in Mexico</i> 	
• Features	<ul style="list-style-type: none"> 7 Amp steady/30 Amp Inrush current capability Simple footprint enables ease of PC board layout 	<ul style="list-style-type: none"> High switching capacity Open, Sealed types available 	<ul style="list-style-type: none"> High sensitivity: 150mW/200mW A wide range of ambient temperature: -40°C to +70°C -40°F to +158°F 	<ul style="list-style-type: none"> Micro ISO type terminal 35A contact rating Quick connect type available 	<ul style="list-style-type: none"> 40 A rating at 85°C 185°F ISO type terminals High shock resistance for drop test requirements Low temperature rise
• Sealed types availability	●	●	●	●	●
• Contact material (Optional material)	Silver alloy	Silver alloy	Gold-clad silver	Silver alloy	Silver alloy
• Contact rating chart (resistive)					
• Pick-up voltage (max.)	DC7.2V	75%V of nominal	75%V of nominal	DC7V	DC7V
• Functional shock resistance	100m/s ² {10G}	98m/s ² {10G}	min 98m/s ² {10G}	200m/s ² {20G}	200m/s ² {20G}
• Functional vibration resistance	10~100Hz 44.1m/s ² {4.5G}	10~55Hz 1.5mm{9G}	58.8m/s ² {6G} 10~55Hz at double amplitude of 1mm	10~500Hz 44.1m/s ² {4.5G}	10~500Hz 44.1m/s ² {4.5G}
• Ambient Temp	-40°C~+85°C	-55°C~+85°C (+155°C UL-F)	-40°C~+70°C	Standard: -40°C~+85°C High heat resistant: -40°C~+125°C	Standard: -40°C~+85°C High heat resistant: -40°C~+125°C
• Max. switching voltage	16V DC	30V DC, 277V AC	60V DC	16V DC	32V DC (24V coil)
• Contact arrangement	1c × 2	1a, 1c	1c	1a, 1c	1a, 1c
• Life (Min. operation)	Electrical	10 ⁵	10 ⁵	10 ⁵ sealed type: (5X10 ⁴)	10 ⁵ sealed type: (5X10 ⁴)
	Mechanical	10 ⁶	10 ⁷	10 ⁷	10 ⁶
• Break-down voltage	Between open contacts	1,000Vrms	1,500Vrms (open type)	500Vrms	500Vrms
	Between contacts and coil	1,000Vrms	1,500Vrms (open type)	1,000Vrms	500Vrms
• Coil voltage	(DC) 12V	(DC) 5, 6, 9, 12, 15, 18V, 24V	(DC) 1.5, 3, 4.5, 5, 6, 9, 12, 24V	(DC) 12V	(DC) 12, 24V
• Nominal operating power	640m W	890m W (open type)		1.5W	1.4W (12V coil) 1.8W (24V coil)
• Terminal layout (Bottom View) •: coil terminal (.100 inch grid)					
• Mounting method					
• Page	24	26	30	33	36

Note: Meaning of symbol marks : PC board terminal; : Plug-in; : Top-mounting; : Top-mounting with PC board terminals; : Surface-mounting