CMA56
CMA562

AUTOMOTIVE RELAY

Features

- Miniature automotive relay
  CMA56 dimensions:14×7.2×13.7mm
  CMA562 dimensions:14×15.4×13.7mm
  CMA56T dimensions:14×7.2×14.2mm
  CMA562T dimensions:14×15.4×14.2mm
- 25A of Motor Load;
- Single relay or twin relay

Relay Picture

CMA56

CMA562

ORDERING INFORMATION

CMA56 [T] [H] - [S] - [DC12V] - [C]

CMA56(Single relay) CMA562(Twin relay)	Soldering	Coil Sensitivity	Enclosure	Coil Voltage	Contact Form
	Blank-Standard T - Reflow	H - High Sensitivety (640mW) Blank-Standard (800mW)	S - Plastic Sealed Type	DC6V,DC9V, DC12V,DC24V	C - 1 Form C

Remark：1. Available in 1 Form C only

SPECIFICATION

CONTACT DATA

Contact Form		C- 1 Form C
Contact Material		Ag Alloy
Contact Rating		Motor:25A(Inrush) 14VDC Resistance:20A 14VDC
Contact Resistance		Max.100mΩ (6VDC 1A)
Load	Max. Switching Voltage	16VDC
	Max. Switching Current	30A
	Max.Continuous current	30A(23℃,1h)
	Min. Switching Load	1A 6VDC
Life	Electrical	1×10^5 ops(720 ops/h)
	Mechanical	1×10^6 ops(300 ops/min)

COIL DATA

Nominal Coil Power	0.64W,0.8W
Max.Permitted Coil Voltage	0.64W: 20VDC(23℃),16VDC(85℃)
	0.8W: 18VDC(23℃), 14VDC(85℃)

GENERAL DATA

Insulation Resistance		Min.100MΩ 500VDC
Dielectric Strength	Between open contacts	550VAC,50/60Hz,1 min
	Between coil and contacts	550VAC,50/60Hz,1 min
Operate Time		Max.10ms
Release Time		Max.10ms
Operating Temperature		-40℃ to +105℃ (Standard)
		-40℃ to +125℃ (Reflow)
Humidity		35～95%RH, +40℃
Shock Resistance	Endurance	100G
	Misoperation	10G
Vibration Resistance	Endurance	10～500Hz,5G Acceleration
	Misoperation	10～500Hz,5G Acceleration
Weight		CMA56:4.0g CMA562:8.0g

Note:Data shown are of initial value

COIL DATA

Ambient Temperature: 23℃

Model	Nominal Voltage VDC	Coil Resistance Ω+/-10%	Operate Voltage ≤VDC	Release Voltage ≥VDC	Coil Power W
CMA56(2)(T)-S-DC6V-C	6	45	3.6	0.6	0.8
CMA56(2)(T)-S-DC9V-C	9	100	5.4	0.9	
CMA56(2)(T)-S-DC12V-C	12	180	7.2	1.2	
CMA56(2)(T)-S-DC24V-C	24	720	14.4	2.4	

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COIL DATA

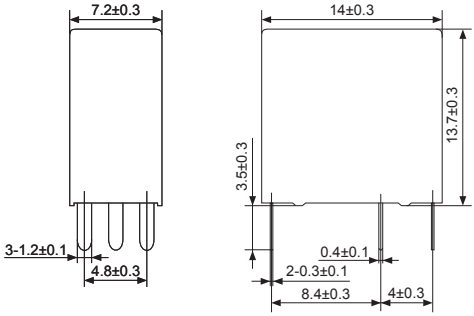
Ambient Temperature: 23℃

Model	Nominal Voltage VDC	Coil Resistance Ω+/-10%	Operate Voltage ≤VDC	Release Voltage ≥VDC	Coil Power W
CMA56(2)(T)H-S-DC6V-C	6	56	3.6	0.6	0.64
CMA56(2)(T)H-S-DC9V-C	9	127	5.4	0.9	
CMA56(2)(T)H-S-DC12V-C	12	225	7.2	1.2	
CMA56(2)(T)H-S-DC24V-C	24	900	14.4	2.4	

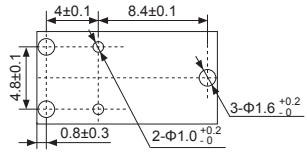
OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

CMA56 Single relay

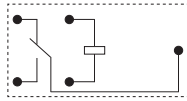
Outline



Mounting Hole Layout
(Bottom View)

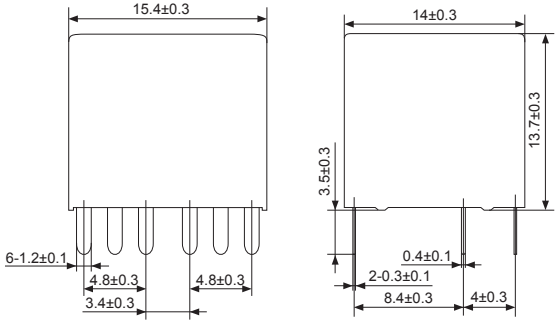


Wiring Diagram
(Bottom View)

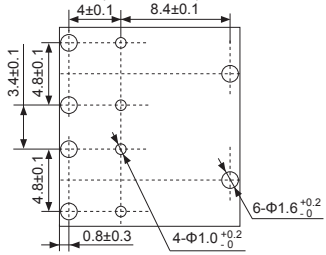


CMA562 Twin relay

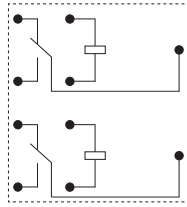
Outline



Mounting Hole Layout
(Bottom View)



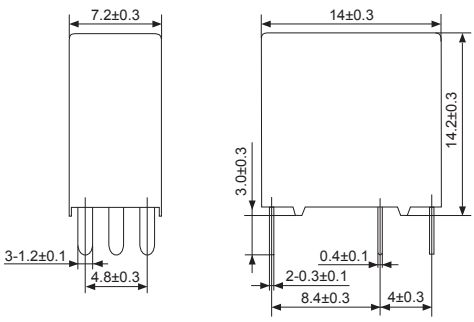
Wiring Diagram
(Bottom View)



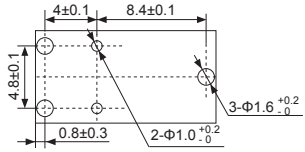
OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

CMA56TSingle relay（Reflow）

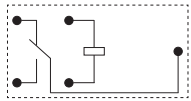
Outline



Mounting Hole Layout
(Bottom View)

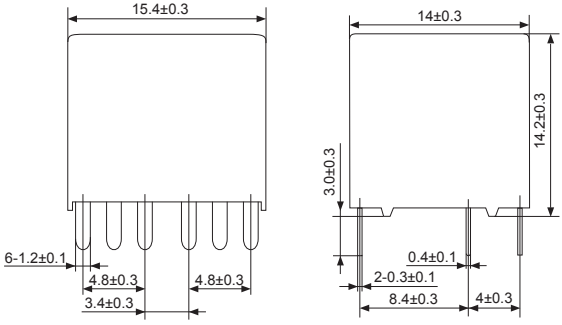


Wiring Diagram
(Bottom View)

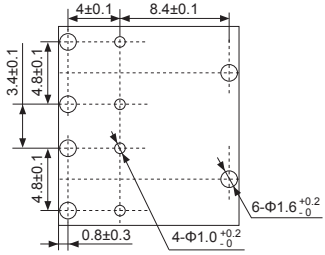


CMA562T Twin relay（Reflow）

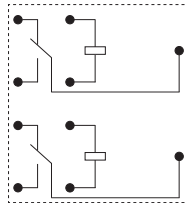
Outline



Mounting Hole Layout
(Bottom View)



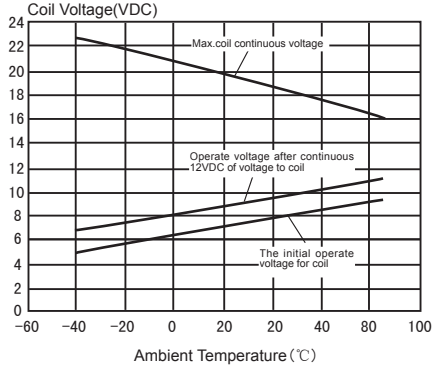
Wiring Diagram
(Bottom View)



REFERENCE DATA

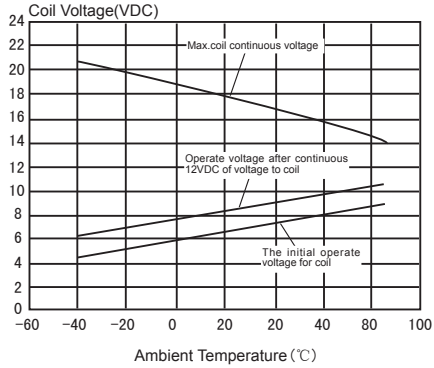
1.The range of coil continuous voltage

The range of coil continuous voltage for 225Ω



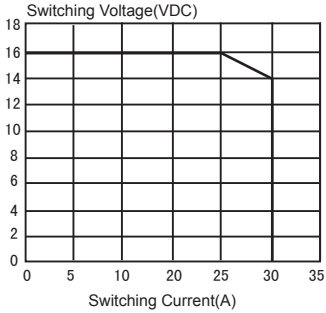
Note:
(1)It is available for no load when Max.continuous coil voltage is energized to relay.
(2)The Operate voltage will be affected by coil pre-applied time and voltage.It will be increased after pre-applied.
(3)The Max.permitted temperature of coil is 180℃.

The range of coil continuous voltage for 180Ω



Note:
(1)It is available for no load when Max.continuous coil voltage is energized to relay.
(2)The Operate voltage will be affected by coil pre-applied time and voltage.It will be increased after pre-applied.
(3)The Max.permitted temperature of coil is 180℃.

2.Max.range of permitted load(23℃)



Note：
(1)It is avaible for Normal Open Contact(NO side), resistance load.
(2)It shall be conducted the electrical endurance by specified load. It is desirable that the product to be tested again if any one of the actually used contact voltage , current, frequency is different from specified.

3.Reflow Solder，PCB Temperature (recommended solder temperature)