507 c911 s



222	Features
	i caluics

- ☐ High rating miniature PCB Relay.☐ AC & DC coil are both available.
- $\hfill \hfill \hfill$
- ☐ 17A 277VAC SPDT.
- ☐ Low profile 15.7mm and high insulation system class F.
- ☐ High CTI 250 material & New Glow Wire Approved.

(E version)

- ☐ Special version for inrush rating application is available.(507 IR type)
- ☐ Comply with RoHS-Directive 2011/65/EU.

>>> Type List

◆ Standard type

Terminal	Contact	Insulation	Des	signation (provided v	vith)
style	form	system	Flux tight	Sealed type	Sealed type washable
DCP terminal	1A (SPNO)	F	507-1AH-F-C	507-1AH-F-V	507-1AH-F-S
PCB terminal	1C (SPDT)	F	507-1CH-F-C	507-1CH-F-V	507-1CH-F-S

♦ High sensitivity type (N) / Ultra-sensitivity type (N1)

	4.4.(CDNO)	F	507N-1AH-F-C	507N-1AH-F-V	507N-1AH-F-S
DCP terminal	1A (SPNO)	F	507N1-1AH-F-C	507N1-1AH-F-V	507N1-1AH-F-S
PCB terminal	1C (SPDT)	F	507N-1CH-F-C	507N-1CH-F-V	507N-1CH-F-S
			507N1-1CH-F-C	507N1-1CH-F-V	507N1-1CH-F-S

♦ High power type

PCB terminal	1A (SPNO)	F	507H-1AH-F-C	507H-1AH-F-V	507H-1AH-F-S
r CD tellilliai	1C (SPDT)	F	507H-1CH-F-C	507H-1CH-F-V	507H-1CH-F-S

♦ High power type • High sensitivity type (N)

PCB terminal	1A (SPNO)	F	507HN-1AH-F-C	507HN-1AH-F-V	507HN-1AH-F-S
FOD terrillial	1C (SPDT)	F	507HN-1CH-F-C	507HN-1CH-F-V	507HN-1CH-F-S

Note: 507A—Special footprint 5.0mm pinning version can be selected.

>>> Ordering Information

	_								
1	2	3		4	5	6	7	8	9
507	Ш		-	1A	Н	- 📙 -	- C		

- 1. 507 -- Basic series designation
- N -- High sensitivity type (0.40 W)
- N1 -- Ultra-sensitivity type (0.25 W)
- 2. Blank -- Standard type

(1P - Terminal pitch 3.5mm)

4. 1A -- Single pole normally open

A -- Standard type and special terminal pitch (1P - Terminal pitch 5.0mm)

1C -- Single pole double throw

H -- High power type (only for 1P type)

5. C -- Contact material AgNiCA -- Contact material AgNi+Au

3. Blank -- Standard type

H -- Contact material AgSnO

(DC: 0.53 W) (AC: 0.75 VA)

HA -- Contact material AgSnO+Au



507

6. Blank -- Standard type

F -- Class F

8. Blank -- Standard type

E -- CTI 250V

IR -- 507 Inrush type(only for H, 1A/1C type)

7. C -- Flux tight

V -- Sealed type

S -- Sealed type washable

9.

-- Coil voltage (please refer to the

coil rating data for the availability)

>>> Contact Rating

Туре	507 · 507N	507N1	507H \ 507HN
Rated load (resistive)	12A 240VAC	10A 240VAC	16A 240VAC
Max. switching current	Max. switching current 12A		17A
Max. switching voltage 277VAC		277VAC	277VAC
Max. switching capacity	2880VA	2400VA	4080VA

>>> Coil Rating (DC)

◆ Standard Type

Rated voltage (V)	Rated current ±10% at 23°C (mA)	Coil resistance ±10% at 23°C (Ω)	Max. continuous voltage at 85°C	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
3	176	17				
5	106	47				
6	88	68				
9	59	153				
12	44	272	150 % of rated		10 % of rated voltage	approx. 0.53W
15	35	425	voltage	rated voltage		
18	29	611				
24	22	1,087				
36	15	2,445				
48	11	4,347				

♦ High sensitivity type (N)

Rated voltage (V)	Rated current ±10% at 23°C (mA)	Coil resistance ±10% at 23°C (Ω)	Max. continuous voltage at 85°C	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
3	133	22.5				
5	80	62				
6	67	90		70 % of	10 % of rated	approx. 0.40W
9	44	203	150 % of			
12	33	360	rated	rated		
18	23	771	voltage	voltage	voltage	
24	17	1,440				
36	11	3,240				
48	9	5,520				

◆ Ultra-sensitivity type (N1)

Rated voltage (V)	Rated current ±10% at 23°C (mA)	Coil resistance ±10% at 23°C (Ω)	Max. continuous voltage at 85°C	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
3	83	36				
5	50	100				
6	42	144			10 % of rated voltage	approx. 0.25W
9	28	324	150 % of	75 % of		
12	21	576	rated voltage	rated voltage		
18	14	1,296	_	_		
24	10	2,304				
36	7	5,184				

>>> Coil Rating (AC) [only for 507 \ 507H]

Rated voltage (V)	Rated current ±10% at 23°C (mA)	Coil resistance ±10% at 23°C (Ω)	Max. continuous voltage at 70°C	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
6	125	23.4				
12	62.5	100				
24	31.2	368		rated rated	15 % of rated	approx. 0.75VA
42	17.8	1,188	150 % of			
48	15.6	1,540	rated			
100/110	7.45	6,880	voltage	voltage	voltage	
110/120	6.8	8,360				
200/220	3.75	26,700				
220/240	3.4	33,000				

>>> Specification

Opecinication					
Contact material	AgNi / AgSnO alloy	AgNi / AgSnO alloy			
Contact resistance (1)	100mΩ Max. (1A(100mA	100m Ω Max. (1A(100mA for Au-plating contact)/6VDC by 4 pipes m Ω meter)			
Operate time (1)	20ms Max.				
Release time (1)	10ms Max.				
Insulation resistance (1)	1000MΩ Min. (DC 500V	()			
Dielectric strength (1)	Between open contact	: AC 1000V, 50/60Hz 1 min.			
Dielectric strength V	Between contact and coil : AC 5000V, 50/60Hz 1 min.				
Surge voltage withstand (1)	Between contact and coil :10KV (1.2X50) μS				
Vibration resistance	Operating extremes	10∼55Hz , amplitude 1.5 mm			
VIDIATION TESISTANCE	Damage limits	10∼55Hz , amplitude 1.5 mm			
Shock resistance	Operating extremes	10G			
SHOCK resistance	Damage limits	100G			
		30,000,000 operations			
	Mechanical	10,000,000 operations (for AC type)			
Life expectancy		(frequency 36,000 operations /hr)			
	Electrical	100,000 operations (frequency 360 operations /hr)			



Operating ambient temperature	DC coil	-40~+85°C (no freezing) (2)	
	AC coil	-40~+70°C (no freezing)	
Weight	Approx. 10 g		

Note: (1) initial value

(2) special version of high temperature 105°C can be selected.

>>> Safety Approval

Certified	UL / CUL	VDE
File No.	E88991	40006746

>>> Safety Approval Rating (VDE)

◆ DC coil

◆ AC coil

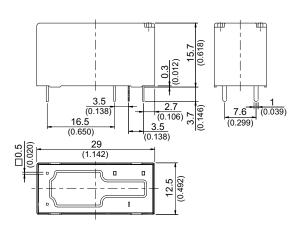
507H \ 507HN	507 · 507N · 507N1	507H	507
17A 250VAC T105	12A 250VAC T105	17A 250VAC T85	12A 250VAC T85

>>> Safety Approval Rating (UL/CUL)

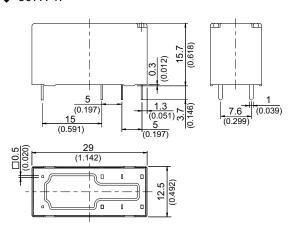
507		507N1
AgNi contact	AgSnO contact	30/101
NO/NC: 17A 277VAC	NO/NC: 17A 277VAC	17A 277VAC
NO: 10FLA 250VAC	10FLA 250VAC	12A 30VDC
12A 30VDC	NO: 1HP 120/240/480VAC	
1HP 480VAC	TV-8	
NC: 1/2HP 120/240/480VAC	NC: 12A 30VDC	
	1/2HP 120/240/480VAC	

>>> Outline Dimensions

♦ 507 1P

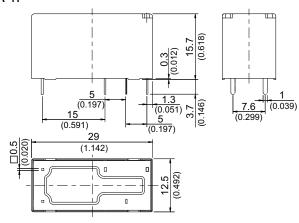


♦ 507H 1P



507

♦ 507A 1P



>>> Wiring Diagram BOTTOM VIEW

♦ 507 1P

1C







♦ 507H 1P

1C







♦ 507A 1P

1C



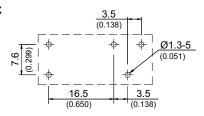




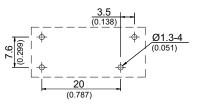
>>> PC Board Layout

♦ 507 1P

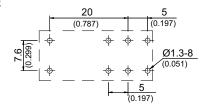
1C



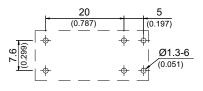
1A



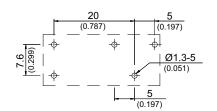
♦ 507H 1P 1C



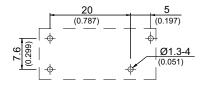
1A



♦ 507A 1P 1C

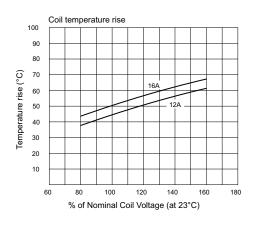


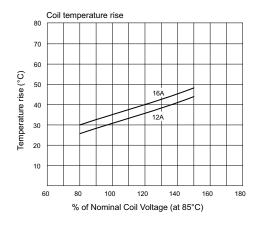
1A

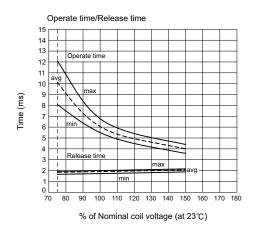




>>> Engineering Data







Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Song Chuan:

507-2AC-F-S 12VDC 507-2AC-F-S 24VDC 507-2AC-F-S 48VDC 507-2AC-F-S 5VDC 507-2CC-F-C 5VDC 507-2CC-F-C 5VDC 507-2CC-F-S 12VDC 507-2CC-F-S 24VDC 507-2CC-F-S 48VDC 507-2CC-F-S 5VDC 507-2CC-F-S 9VDC 507-1CC-F-S-12VDC 507-1CC-F-S-24VDC 507-2CC-F-C-24VDC 507H-1AH-F-S-IR-12VDC 507H1AHFSIR24VDC 507H-1CC-F-S-12VDC 507H-1CC-F-S-12VDC 507H-1CH-F-S-12VDC 507H-1CH-F-S-12VDC 507WP1-1AC-F-S-12VDC 507WP1-1AC-F-S-12VDC 507WP2-1AC-F-S 507-2AC-F-C 12VDC 507-2CC-F-C 48VDC 507H-1AH-F-C-12VDC 507-2AC-F-C 24VDC 507-2CC-F-C 9VDC 507-2CC-C-12VDC 507-2CC-F-C 12VDC 507N-2CCA-C-E-24VDC 507HN-1CH-F-S-24VDC 507HN-1CH-F-S-12VDC 507HN-1CH-F-S-24VDC 507HN-1CH-F-S-12VDC 507