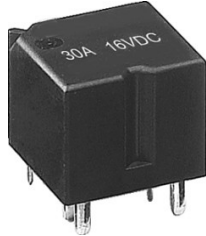


R504 Automotive power relay



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Features

- Small size, light weight (4g) .
 - Withstands high temperature, operating under 105°C ambient temp.
 - Heavy contact load switching current up to 30A.
- Suitable for automobile and lamp accessories application.

Contact Data

Contact Arrangement		1A (SPSTNO) ,1C (SPDT(B-M))	
Contact Material		Ag alloy	
Contact Rating		Resistive: 1A:30A,20A/14VDC 1C:NO:30A,20A/14VDC; NC:25A,15A/14VDC	
Max. Switching Power		420W	
Max. Switching Voltage		24VDC	Max. Switching Current:30A
Max. carrying current		NO:40A for 2 minutes,30A for 1 hour(12VDC at 20°C); 35A for 2 minutes,25A for 1hour(12VDC at 85°C)	
Contact Resistance or Voltage drop		≤ 30mV (at 10A)	Item 4.12 of IEC 61810-7
Operation life	Electrical	10 ⁵	Item 4.30 of IEC 61810-7
	Mechanical	10 ⁷	Item 4.31 of IEC 61810-7

CAUTION: 1.For the intermediate current, it only applies to the room temperature.

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance $\Omega \pm 10\%$	Pickup voltage VDC(max) (58% of rated voltage)	Release voltage VDC(min) (12.5% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
010-550	10	12	181	5.7	1.25	0.55	≤4	≤1.5
012-570	12	14.4	254	6.9	1.5	0.57		
024-570	24	28.8	1010	13.8	3	0.57		

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
 2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

ORDERING DESIGNATION EXAMPLE:

R1 D / 012 Z 1 Ø S							
1 2 3 4 5 6 7							
1 Model: R504 2 D= VDC coil 3 Coil voltage: 10, 12, 24, 28.8 VDC 4 Contact form: Z = 1C contact ; H = 1A contact				5 Version: 1=sealed 6 Contact material: Ø on Ni/Ag alloy 7 Mounting: Nil = PCB ; S = SMT 8 Nil			

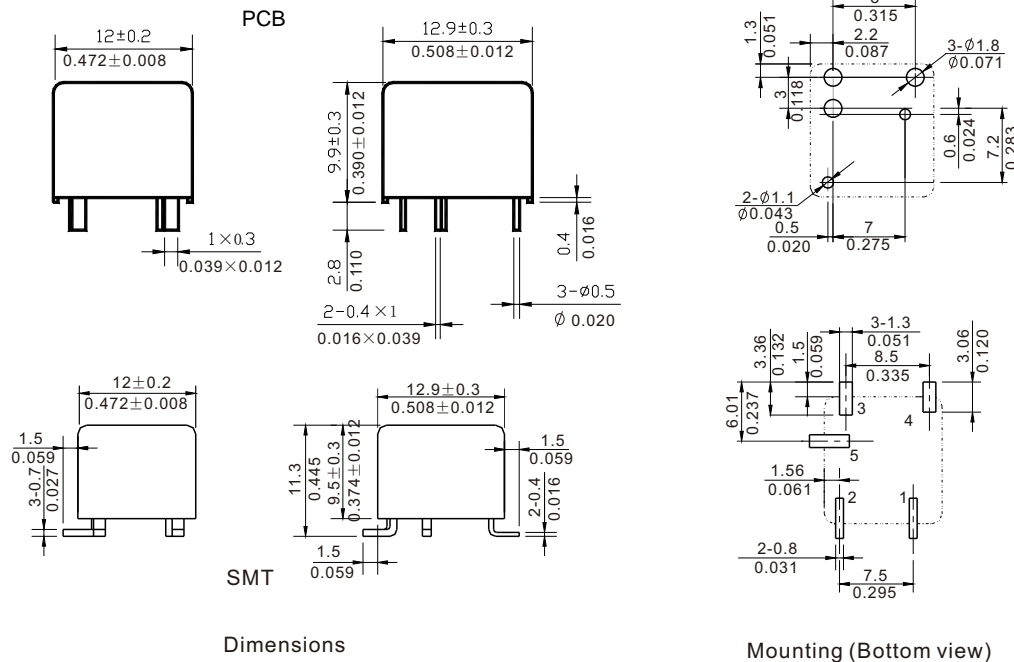
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Operation condition

Insulation Resistance	1000M Ω min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength Between contacts Between contact and coil	50Hz 500V 50Hz 500V	Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Shock resistance	300m/s ² 6ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~500Hz double amplitude 1.27mm 60m/s ²	IEC 68-2-6 Test Fc
Terminals strength	10N	IEC 68-2-21 Test Ual
Solderability	235°C \pm 2°C 3s \pm 0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40°C~105°C	
Relative Humidity	85% (at 20°C)	IEC 68-2-3 Test Ca
Mass	4g (Q type 9.5g)	

Dimensions

mm /inch



NOTES 1).Dimensions are in millimeters.
2).Inch equivalents are given for general information only.

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