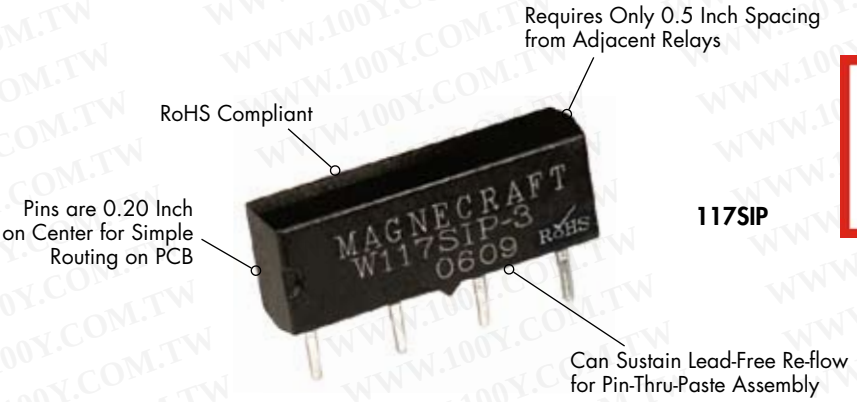
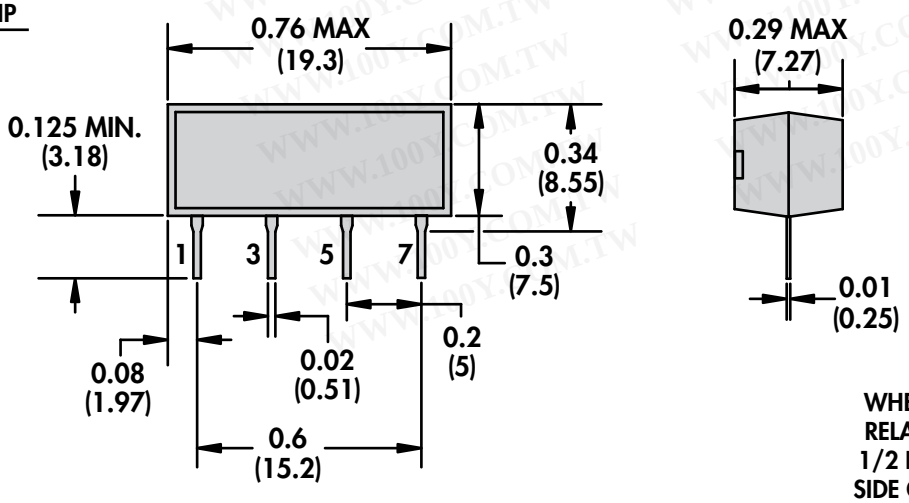


117SIP

General Specifications

Contact Characteristics			Units	117SIP
Number and type of Contacts				SPST
Contact materials				Rhodium
Current rating			A	0.5
Switching voltage		~	V	120
		⎓	V	200
Minimum Switching Requirement	Minimum		mA	10
Coil Characteristics				
Voltage Range		⎓	V	5....24
Operating Range	% of Nominal	⎓		80% to 110%
Average consumption		⎓	W	0.29
Drop-out voltage threshold		⎓		10%
Performance Characteristics				
Electrical Life	Operations @ Rated Current (Resistive)			50,000,000
Mechanical Life	Unpowered			100,000,000
Operating time (response time)			ms	0.45
Rated insulation voltage	Between coil and contact	~	V	500
Dielectric strength	Between poles	~	V	500
rms voltage	Between contacts	~	V	150
Environment				
Ambient air temperature	Storage		°C	-40...+85
around the device	Operation		°C	-40...+55
Vibration resistance	Operational		g-n	20, 10-200 Hz
Shock resistance			g-n	50
Weight			grams	1

117SIP



WHEN SPACING SIP AND DIP RELAYS, THE RELAYS REQUIRE 1/2 INCH SPACING FROM THE SIDE OF THE ADJACENT RELAYS

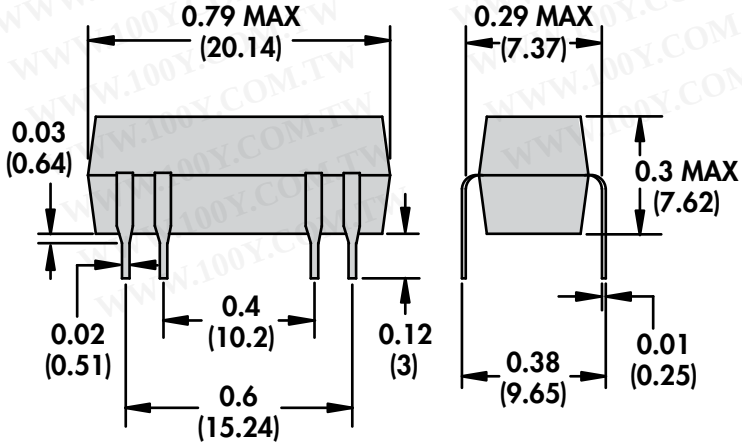
DRAWING ENLARGED TO 200% OF ACTUAL SIZE

107DIP

171DIP

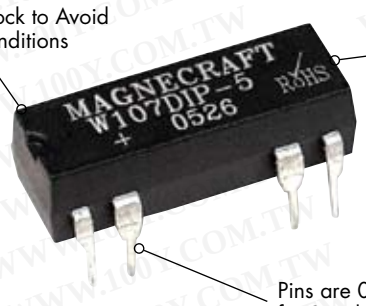
107DIP	171DIP	171DIP
SPST-NO	DPST-NO	SPST
Rhodium	Rhodium	Rhodium
0.5	0.5	0.5
120	120	60
100	100	100
10	10	10
5....24	5....24	5....24
80% to 110%	80% to 110%	80% to 110%
0.29	0.29	0.29
10%	10%	10%
50,000,000	50,000,000	50,000,000
100,000,000	100,000,000	100,000,000
1	1	1
1000	1000	1000
1000	1000	1000
200	200	200
-40...+85	-40...+85	-40...+85
-40...+55	-40...+55	-40...+55
20, 10-200 Hz	20, 10-200 Hz	20, 10-200 Hz
50	50	50
1	1	1

107DIP & 171DIP



DRAWING ENLARGED TO 200% OF ACTUAL SIZE

117SIP, 107DIP, 171DIP PCB Mount Miniature Reed Relays/SPDT and SPST 0.5 Amp Rated



Can Survive High Shock to Avoid Damage in Harsh Conditions

Can Sustain Lead-Free Re-flow for Pin-Thru-Paste Assembly

107DIP

Pins are 0.10 Inch on Center for Simple Routing on PCB

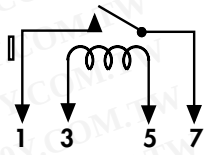
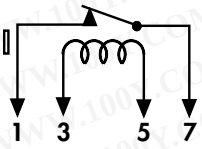
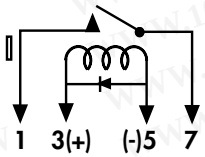
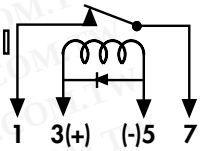
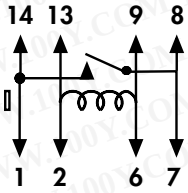
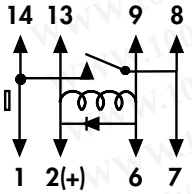
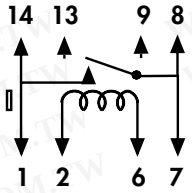
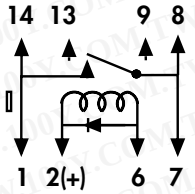
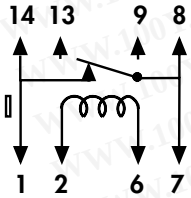
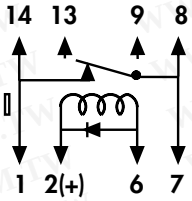
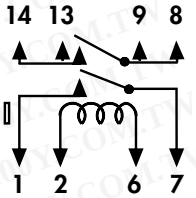
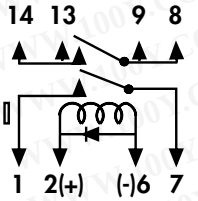
RoHS Compliant

Standard Part Numbers

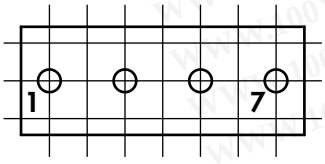
BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

Nominal Input Voltage	Nominal Coil Resistance (Ω)	Part Number	Contact Configuration	Figure
5 VDC	500 Ω	**W117SIP-1**	SPST-NO	A
12 VDC	1000 Ω	**W117SIP-3**	SPST-NO	A
24 VDC	2000 Ω	W117SIP-5	SPST-NO	A
5 VDC	500 Ω	**W117SIP-22**	SPST-NC	B
12 VDC	1000 Ω	W117SIP-23	SPST-NC	B
24 VDC	2200 Ω	W117SIP-24	SPST-NC	B
5 VDC	500 Ω	**W117SIP-6**	SPST-NO w/ Clamping Diode	C
12 VDC	1000 Ω	W117SIP-8	SPST-NO w/ Clamping Diode	C
24 VDC	2200 Ω	**W117SIP-10**	SPST-NO w/ Clamping Diode	C
5 VDC	500 Ω	**W117SIP-18**	SPST-NC w/ Clamping Diode	D
12 VDC	1000 Ω	W117SIP-25	SPST-NC w/ Clamping Diode	D
24 VDC	2200 Ω	W117SIP-26	SPST-NC w/ Clamping Diode	D
5 VDC	500 Ω	**W107DIP-1**	SPST-NO	E
12 VDC	1000 Ω	**W107DIP-3**	SPST-NO	E
24 VDC	2000 Ω	**W107DIP-4**	SPST-NO	E
5 VDC	500 Ω	**W107DIP-5**	SPST-NO w/ Clamping Diode	F
12 VDC	1000 Ω	**W107DIP-7**	SPST-NO w/ Clamping Diode	F
24 VDC	2000 Ω	**W107DIP-8**	SPST-NO w/ Clamping Diode	F
5 VDC	500 Ω	**W171DIP-2**	SPST-NO	G
12 VDC	1000 Ω	**W171DIP-4**	SPST-NO	G
24 VDC	2200 Ω	**W171DIP-5**	SPST-NO	G
5 VDC	500 Ω	**W171DIP-7**	SPST-NO w/ Clamping Diode	H
12 VDC	1000 Ω	W171DIP-9	SPST-NO w/ Clamping Diode	H
24 VDC	2200 Ω	**W171DIP-10**	SPST-NO w/ Clamping Diode	H
5 VDC	500 Ω	**W171DIP-12**	SPST-NC	I
12 VDC	1000 Ω	**W171DIP-14**	SPST-NC	I
24 VDC	2200 Ω	W171DIP-15	SPST-NC	I
5 VDC	500 Ω	**W171DIP-17**	SPST-NC w/ Clamping Diode	J
12 VDC	1000 Ω	**W171DIP-19**	SPST-NC w/ Clamping Diode	J
24 VDC	2200 Ω	**W171DIP-20**	SPST-NC w/ Clamping Diode	J
5 VDC	500 Ω	**W171DIP-21**	DPST-NO	K
12 VDC	1000 Ω	**W171DIP-23**	DPST-NO	K
24 VDC	2200 Ω	**W171DIP-24**	DPST-NO	K
5 VDC	500 Ω	**W171DIP-25**	DPST-NO w/ Clamping Diode	L
12 VDC	1000 Ω	**W171DIP-27**	DPST-NO w/ Clamping Diode	L
24 VDC	2200 Ω	**W171DIP-28**	DPST-NO w/ Clamping Diode	L

WIRING DIAGRAMS
TOP VIEW

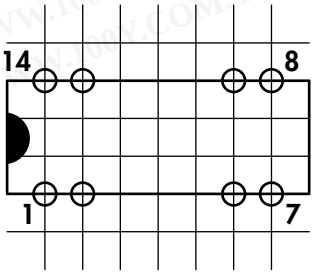
 Figure A SPST-NO WITHOUT DIODE	 Figure B SPST-NC WITHOUT DIODE	 Figure C SPST-NO WITH DIODE	 Figure D SPST-NC WITH DIODE
 Figure E SPST-NO WITHOUT DIODE	 Figure F SPST-NO WITH DIODE	 Figure G SPST-NO WITHOUT DIODE	 Figure H SPST-NO WITH DIODE
 Figure I SPST-NC WITHOUT DIODE	 Figure J SPST-NC WITH DIODE	 Figure K DPST-NO WITHOUT DIODE	 Figure L DPST-NO WITH DIODE

117SIP CIRCUIT BOARD PIN SPACING
VIEWED FROM COMPONENT SIDE
(TOP VIEW)



0.1 IN GRID
(2.54 MM)

107DIP & 171DIP CIRCUIT BOARD PIN SPACING
VIEWED FROM COMPONENT SIDE
(TOP VIEW)



CIRCUIT BOARD PIN SPACINGS ENLARGED TO 200% OF ACTUAL SIZE