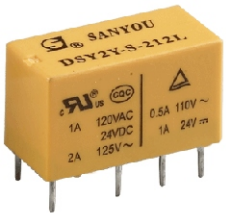
SANYOU RELAYS

Relays for advanced technology

ULTRA-MINIATURE PC BOARD TYPE POWER RELAY

DSY2Y -RELAY



UL,C-UL File NO.:E179745
TUVFile NO.:R50034820
CQC File NO.:CQC02001002119

- High sensitivity-200mW nominal operating power.
- High mounting density on P.C. board by small size and light weight.
- DIP-2C type matching 16 pin IC socket.
- Sealed construction.
- UL/C-UL TUV & CQC recognized.

SPECIFICATIONS

Contact

Arrangement		2c
Contact material		AgPd30+AuAg8
Contact resistive (By voltage drop 1A 6VDC)		50mΩ Max.
UL/C-UL rating Resistive load (cos ϕ =1)		1A 120VAC 2A 24VDC
CQC rating		0.3A/1.2A 125VAC
TUV rating Resistive load		0.5A 110VAC 1A 24VDC
Max.switching voltage		220VDC 250VAC
Max.switching current		2A
Max. carrying current		3A
Max.switching power		72W 120VA
Exoected life(min.ope)	Mechanical (at 180 cpm)	$1X10^7$
	Electrical (at 20 cpm)	$1X10^5$

Coil

Nominal operating power	0.2W, 0.36W

Characteristics

Operate time		10 msec.Max.
Release time		4 msec.Max.
Operating humidity		45~85%RH
Initial breakdown voltage	Between contact and coil	1,000VAC (50/60Hz) for 1 min.
	Between open contacts	750VAC (50/60Hz) for 1 min.
	Between contact sets	1,000VAC (50/60Hz) for 1 min.
Insulation resistance		100MΩ Min.(500VDC)
Ambient temperature		-30℃~+75℃
Temperature rise (Max.)		65℃
Shock resistance	Functional	50G Min.
	Destruction	100G Min.
Vibration resistance	Functional	10 TO 55 Hz at double Amplitude of 1.5mm
	Destruction	10 TO 55 Hz at double Amplitude of 1.5mm
Unit weight		Approx. 5.4g

TYPICAL APPLICATION

1. Telecommunication equipment
2. Office equipment.
3. Computer peripherats.
4. Medical equipment.
5. Security/alarm systems, etc.

ORDERING INFORMATION

DSY2Y — S — 1 2 D

Type	Protective construction	Number of pole	Coil type	Coil sensitivity
DSY2Y	NIL:Flux type S:Seadled type	2:2 pole	03,05,06,09, 12,18,24,48	D:0.36W L:0.20W

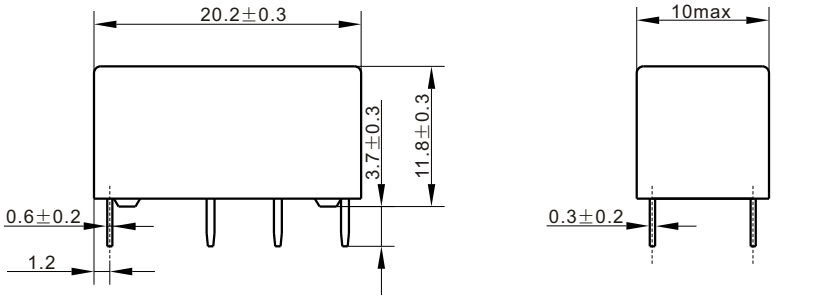
COIL(at 20°C)

DSY2Y

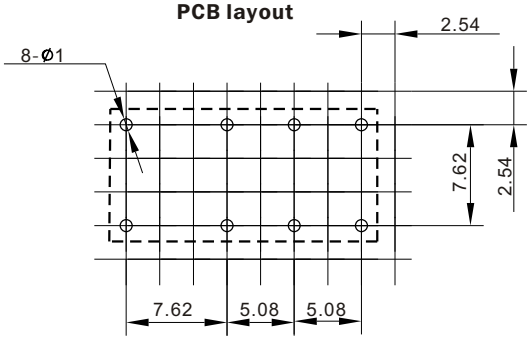
Voltage code	Nominal voltage (VDC)	Nominal current (mA)	Coil resistance (Ω ±10%)	Drop-out voltage (VDC)	Pick-up voltage (VDC)	Nominal operating power (W)	Max allowable voltage (VDC)
03	3	120.00	45	5%Min.	75%Max.	0.20	130% of nominal voltage
05	5	71.43	125				
06	6	60.00	180				
09	9	40.00	405				
12	12	30.00	720				
24	24	20.00	2,880				
48	48	15.00	4,600			0.50	

Voltage code	Nominal voltage (VDC)	Nominal current (mA)	Coil resistance (Ω ±10%)	Drop-out voltage (VDC)	Pick-up voltage (VDC)	Nominal operating power (W)	Max allowable voltage (VDC)
03	3	120.00	25	5%Min.	75%Max.	0.36	130% of nominal voltage
05	5	71.43	70				
06	6	60.00	100				
09	9	40.00	225				
12	12	30.00	400				
24	24	20.00	1,600				
48	48	15.00	4,600			0.50	

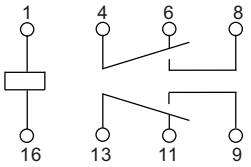
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT(unit:mm)



PCB layout

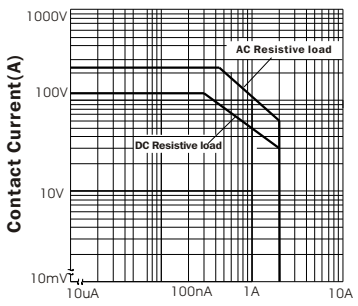


Wiring Diagram



CHARACTERISTICS CURVE

MAXIMUM SWITCHING POWER



LIFE CURVE