

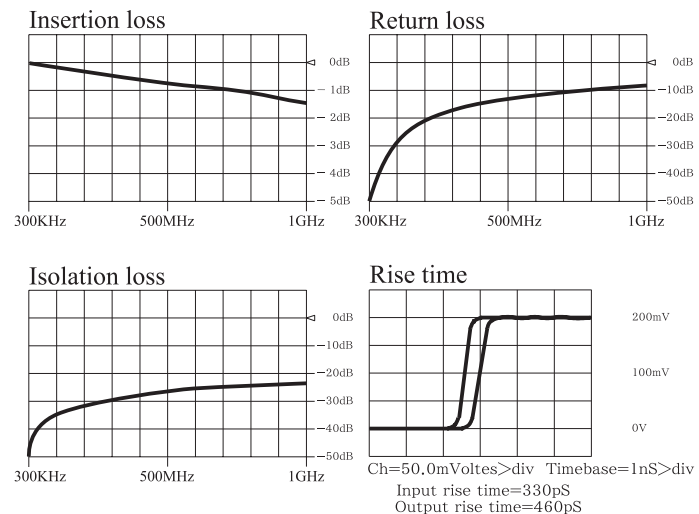
Miniature Reed Relays (1)



This series is the standardized product in the Sanyu PCB relays product line. This product line comes in 1 Form A 2 Form A , 1 Form C and mercury contact arrangements. These relays have characteristics to high RF performance, low capacitance, high insulation resistance and small package easy to design inch pitches.

- High RF performance
- Impedance matching
- High insulation resistance up to 10^{11}
- Electric Magnetic Shield

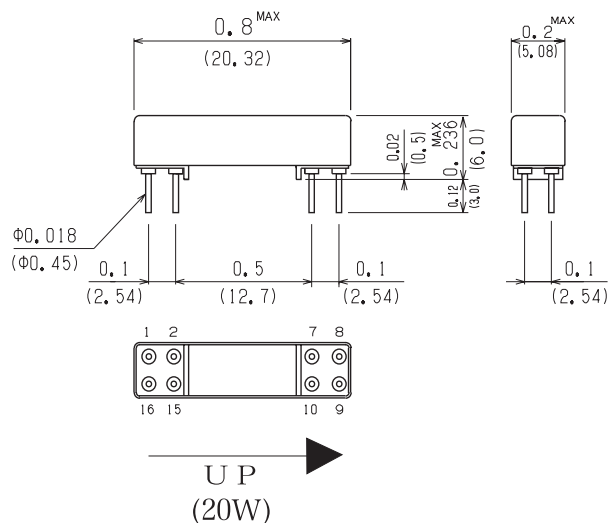
20D-1A12N1



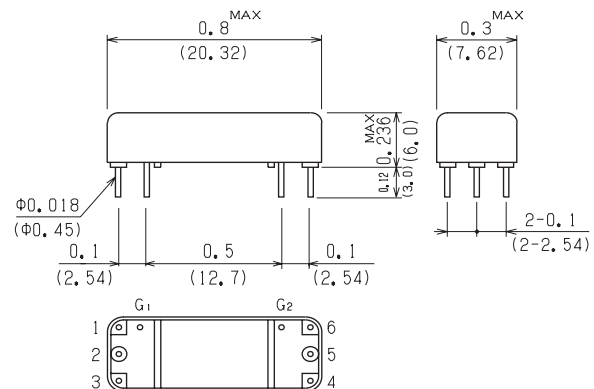
Mechanical Dimensions

All dimensions are measured in inches (millimeters).

20D-1A□2(§)1
20D-1C□2(§)0
20W-1A□2(§)0
21Z-1A□2(§)0



20D-2A□2(§)1





20□ Series			Model Number			Model Number			Model Number			Model Number			Model Number		
			20D-1A□□2□1			20D-2A□□2□1			20D-1C□□2□0			20W-1A□□2□0			20Z-1A□□2□0		
Parameters	Test Condition	Units	1 Form A			2 Form A			1 Form C			1 Form A			1 Form A		
Coil Specifications																	
Nominal coil voltage		VDC	5	12	24	5	12	24	5	12	24	5	12	24	5	12	
Coil resistance	±10% at20°C	Ω	160	600	1800	150	600	2000	120	600	1800	70	330	1200	50	300	
Operating voltage	15°C~35°C	VDC Max	3.6	9.6	19.2	3.6	9.6	19.2	3.6	9.6	19.2	3.6	9.6	19.2	3.6	9.6	
Release voltage	15°C~35°C	VDC Min	0.7	1.2	2.4	0.7	1.2	2.4	0.7	1.2	2.4	0.7	1.2	2.4	0.7	1.2	
Contact Ratings																	
Switching voltage	Peak AC resistance	Volts	100			100			30			500			500		
Switching current	Max. DC/Peak AC resistance	Amps	0.5			0.5			0.2			1.0			0.5		
Carry current	Max. DC/Peak AC resistance	Amps	1.0			1.0			0.5			2.0			2.0		
Contact rating	Max. DC/Peak AC resistance	Watts	10			10			3			50			50		
Life expectancy	1V. 10mA	×10 ⁶ cycles	1000			1000			50			1000			300		
Contact resistance	Maximum initial	mΩ	150			150			150			100			100		
Contact resistance stability	Maximum initial	mΩ	5.0			5.0			5.0			5.0			5.0		
Relay Specifications																	
Insulation resistance	Between all isolated pins at 100V 20°C 40%RH	Ω	10 ¹¹			10 ¹¹			10 ¹⁰			10 ¹⁰			10 ¹⁰		
Capacitance		pF-Max															
Across open contacts	Shield guarding		0.2			0.1			0.7			0.1			0.1		
Contact to Shield	Contacts open, :Make-shield :Break-shield		1.2			1.3			1.7			2.0			2.0		
Open contact to coil	Shield floating																
	Shield guarding : Make-Coil :Break-Coil		0.6			0.5			0.6			0.6			0.6		
Dielectric strength	Between contacts	VDC	200			200			200			1000			1000		
	Contacts to shield		500			500			500			1000			1000		
Operating time (Including. bounce)	At nominal coil voltage, 100Hz Square wave	msec	0.35			0.5			1.5			2.5			1.2		
Release time	Diode suppression	msec	0.25			0.5			2.0			2.5			1.2		
Environmental Ratings		Schematics Top view															
Mesurement reference conditons																	
Temp. : 15°C~35°C Humidity : 25%~85%RH																	
Atmospheric pressure : 860~1060hPa																	
Storage temp. : -40°C~+80°C																	
: -30°C~+80°C (20W, 20Z)																	
Operating temp : -20°C~+60°C																	
: -10°C~+60°C (20W, 20Z)																	
The operating and Release Voltage and the coil resistance are specified at 20°C. These values change approximately 0.4%/°C change in the ambient temperature.																	
Vibration : 20Gs to 2000Hz																	
Shock : 50Gs																	

Notes :

- Values are specified with a resistive load being applied. A contact protective circuit is required for C and L Type loads.
- The values for the operating time and release time however, are when the rated coil voltage is applied and a clamp diode is attached.
- Model 20D-1A□□2D1 : Diode is connected to pin 15 (+) and pin 9 (-).
Model 20D-2A□□2D1 : Diode is connected to pin 3 (+) and pin 4 (-).
Model 20D-1C□□2D0 : Diode is connected to pin 2 (+) and pin 7 (-).
Model 20W-1A□□2D0, 20Z-1A□□2D0:Diode is connected to pin 16 (+) and pin 9 (-).
Correct coil polarity must be followed.
- The 20W Series model have Hg wet contacts, are position sensitive, and must be mounted with in 30° of the vertical plane. See the schematic.

ORDERING CODE

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(1) (2) (3) (4) (5) (6)

Example 20D-1A12N1 Represents Series 20D with 1Form A, Dry Reed (Rhodium), Coil Voltage 5V and Coaxial Shield.

(1) Reed Switch Type	(3) Contact Form	(5) Diode Options
D-Dry Reed	A-Form A	N-No Diode
W-Hg Wet	C-Form C	D-With Diode
Z-Hg Wet All Position		
(2) Number of capsule	(4) Coil Voltage	(6) Insulation Resistance
1-1 capsule	1-5VDC	0-10 ¹⁰
2-2 capsules	2-12VDC	1-10 ¹¹
	3-24VDC (20Z N/A)	

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