

TPM Part / No.		130D-1A□0N0	133D-1A30N0	132D-1A□0N0	135W-1A30N0
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm		85.7 x 19.7 x 18.2	85.7 x 19.7 x 18.2	70 x 17 x 19	85.7 x 19.7 x 18.2
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	1 Form A	1 Form A	1 Form A
	Coil Rating Voltage	5 V / 80Ω 12 V / 250Ω 24 V / 600Ω	24 V / 400Ω	5 V / 35Ω 12 V / 180Ω 24 V / 650Ω	24 V / 300Ω
	Contact Rating	50 W	50 W	50 W	250 W
	Contact Current	3.0 Amp	3.0 Amp	3.0 Amp	5 Amp
	Carry Current	4.0 Amp	4.0 Amp	4.0 Amp	10 Amp
	Switching Voltage	7500 VDC	10000 VDC	3500 VDC	8000 VDC
	Contact Voltage	10000 VDC	15000 VDC	5000 VDC	9000 VDC
	Contact Resistance	500 mΩ	500 mΩ	500 mΩ	50 mΩ
	Insulation Resistance	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.
	Operate Time	5.0 mS	5.0 mS	5.0 mS	10.0 mS
	Release Time	5.0 mS	5.0 mS	5.0 mS	6.0 mS
	Reflow temperature				
電氣壽命 (代表例) Electrical Life		DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)
High-frequency response					
外觀尺寸	DIMENSION				
	Ordering Code :				
備註	□ =1 coil = 5 VDC				
	□ =2 coil =12 VDC				
	□ =3 coil =24 VDC				
	□ =5 coil =3.3 VDC				

TPM Part / No.	59W-1A□0N0-91	59W-1A□0N0-92			
SANYU Part / No.			UPM-16205YHL	UPM-16212YHL	
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	30.48 x 10 x 11.5	30.48 x 10 x 11.5	30.2 x 9.5 x 10.2	30.2 x 9.5 x 10.2	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	1 Form A	1 Form A	
	Coil Rating Voltage	12 V / 180Ω 24 V / 600Ω	12 V / 300Ω 24 V / 1200Ω	5 V / 120Ω	12 V / 600Ω
	Contact Rating	50 W	50 W	100 W	100 W
	Contact Current	1.0 Amp	1.0 Amp	1.0 Amp	1.0 Amp
	Carry Current	5.7 Amp	5.2 Amp	2.8 Amp	2.8 Amp
	Switching Voltage	2000 VDC	1000 VDC	1000 VDC	1000 VDC
	Contact Voltage	4400 VDC	2500 VDC	2500 VDC	2500 VDC
	Contact Resistance	80 mΩ	80 mΩ	150 mΩ	150 mΩ
	Insulation Resistance	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.
	Operate Time	4.0 mS	3.0 mS	1.5 mS	1.5 mS
	Release Time	4.0 mS	3.0 mS	1.5 mS	1.5 mS
	Reflow temperature				
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸 DIMENSION					
備註	Ordering Code : <input type="checkbox"/> =1 coil = 5 VDC <input type="checkbox"/> =2 coil =12 VDC <input type="checkbox"/> =3 coil =24 VDC <input type="checkbox"/> =5 coil =3.3 VDC				

TPM Part / No.	HA700-105□□	HA700-110□□	HA700-115□□	HA701-105□□	
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	68.5 x 19.5 x 20	68.5 x 19.5 x 20	68.5 x 19.5 x 20	68.5 x 19.5 x 20	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	1 Form A	1 Form A	
	Coil Rating Voltage	5 V / 45Ω 12 V / 250Ω 24 V / 1000Ω	5 V / 45Ω 12 V / 250Ω 24 V / 1000Ω	5 V / 30Ω 12 V / 150Ω 24 V / 600Ω	5 V / 45Ω 12 V / 250Ω 24 V / 1000Ω
	Contact Rating	50 W	50 W	50 W	50 W
	Contact Current	3.0 Amp	3.0 Amp	3.0 Amp	3.0 Amp
	Carry Current	4.0 Amp	4.0 Amp	4.0 Amp	4.0 Amp
	Switching Voltage	3500 VDC	7500 VDC	10000 VDC	3500 VDC
	Contact Voltage	5000 VDC	10000 VDC	15000 VDC	5000 VDC
	Contact Resistance	200 mΩ	200 mΩ	200 mΩ	200 mΩ
	Insulation Resistance	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.
	Operate Time	3.0 mS	3.0 mS	3.0 mS	3.0 mS
	Release Time	1.5 mS	1.5 mS	1.5 mS	1.5 mS
	Reflow temperature				
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸 DIMENSION					
備註 Ordering Code :	□□ =05 coil = 5 VDC □□ =12 coil =12 VDC □□ =24 coil =24 VDC				

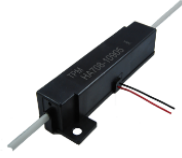
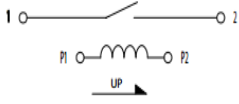
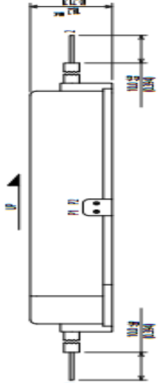
High Breakdown Voltage REED RELAY

TPM Part / No.	HA701-110□□	HA701-115□□	HA702-105□□	HA702-110□□	
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	68.5 x 19.5 x 20	68.5 x 19.5 x 20	68.5 x 19.5 x 20	68.5 x 19.5 x 20	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	1 Form A	1 Form A	
	Coil Rating Voltage	5 V / 45Ω 12 V / 250Ω 24 V / 1000Ω	5 V / 30Ω 12 V / 150Ω 24 V / 600Ω	5 V / 45Ω 12 V / 250Ω 24 V / 1000Ω	5 V / 45Ω 12 V / 250Ω 24 V / 1000Ω
	Contact Rating	50 W	50 W	50 W	50 W
	Contact Current	3.0 Amp	3.0 Amp	3.0 Amp	3.0 Amp
	Carry Current	4.0 Amp	4.0 Amp	4.0 Amp	4.0 Amp
	Switching Voltage	7500 VDC	10000 VDC	3500 VDC	7500 VDC
	Contact Voltage	10000 VDC	15000 VDC	5000 VDC	10000 VDC
	Contact Resistance	200 mΩ	200 mΩ	200 mΩ	200 mΩ
	Insulation Resistance	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.
	Operate Time	3.0 mS	3.0 mS	3.0 mS	3.0 mS
	Release Time	1.5 mS	1.5 mS	1.5 mS	1.5 mS
	Reflow temperature				
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸	DIMENSION				
	Ordering Code :				
備註	□□ =05 coil = 5 VDC				
	□□ =12 coil =12 VDC				
	□□ =24 coil =24 VDC				

TPM Part / No.	HA702-115□□	HA702-118□□	HA703-110□□	HA703-115□□	
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	68.5 x 19.5 x 20	68.5 x 19.5 x 20	65.5 x 15 x 15.5	65.5 x 15 x 15.5	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	1 Form A	1 Form A	
	Coil Rating Voltage	5 V / 30Ω 12 V / 150Ω 24 V / 600Ω	5 V / 30Ω 12 V / 150Ω 24 V / 600Ω	5 V / 45Ω 12 V / 250Ω 24 V / 1000Ω	5 V / 30Ω 12 V / 120Ω 24 V / 465Ω
	Contact Rating	50 W	50 W	50 W	50 W
	Contact Current	3.0 Amp	3.0 Amp	3.0 Amp	3.0 Amp
	Carry Current	4.0 Amp	4.0 Amp	4.0 Amp	4.0 Amp
	Switching Voltage	10000 VDC	12000 VDC	7500 VDC	10000 VDC
	Contact Voltage	15000 VDC	18000 VDC	10000 VDC	15000 VDC
	Contact Resistance	200 mΩ	200 mΩ	200 mΩ	200 mΩ
	Insulation Resistance	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹³ Ω min.	10 ¹³ Ω min.
	Operate Time	3.0 mS	3.0 mS	3.0 mS	3.0 mS
	Release Time	1.5 mS	1.5 mS	1.5 mS	1.5 mS
	Reflow temperature				
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸	DIMENSION	<p>UL 3239 AWG22 Silicone High-Voltage wire</p>			
	Ordering Code :				
備註	□□ =05 coil = 5 VDC				
	□□ =12 coil =12 VDC				
	□□ =24 coil =24 VDC				

TPM Part / No.	HA704-110□□	HA704-115□□	HA705-110□□	HA705-115□□	
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	65.5 x 15 x 15.5	65.5 x 15 x 15.5	68.5 x 19.5 x 20	68.5 x 19.5 x 20	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	1 Form A	1 Form A	
	Coil Rating Voltage	5 V / 45Ω 12 V / 250Ω 24 V / 1000Ω	5 V / 30Ω 12 V / 120Ω 24 V / 465Ω	5 V / 45Ω 12 V / 250Ω 24 V / 1000Ω	5 V / 30Ω 12 V / 150Ω 24 V / 600Ω
	Contact Rating	50 W	50 W	50 W	50 W
	Contact Current	3.0 Amp	3.0 Amp	3.0 Amp	3.0 Amp
	Carry Current	4.0 Amp	4.0 Amp	4.0 Amp	4.0 Amp
	Switching Voltage	7500 VDC	10000 VDC	7500 VDC	10000 VDC
	Contact Voltage	10000 VDC	15000 VDC	10000 VDC	15000 VDC
	Contact Resistance	200 mΩ	200 mΩ	200 mΩ	200 mΩ
	Insulation Resistance	10 ¹³ Ω min.	10 ¹³ Ω min.	10 ¹³ Ω min.	10 ¹³ Ω min.
	Operate Time	3.0 mS	3.0 mS	3.0 mS	3.0 mS
	Release Time	1.5 mS	1.5 mS	1.5 mS	1.5 mS
	Reflow temperature				
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸	DIMENSION				
	Ordering Code :				
備註	□□ =05 coil = 5 VDC				
	□□ =12 coil =12 VDC				
	□□ =24 coil =24 VDC				

TPM Part / No.	HA706-110	HA706-115	HA707-110	HA707-115	
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	68.5 x 19.5 x 20	68.5 x 19.5 x 20	85.7 x 19.7 x 18.2	85.7 x 19.7 x 18.2	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	1 Form A	1 Form A	
	Coil Rating Voltage	5 V / 45Ω 12 V / 250Ω 24 V / 1000Ω	5 V / 30Ω 12 V / 150Ω 24 V / 600Ω	5 V / 80Ω 12 V / 250Ω 24 V / 600Ω	5 V / 30Ω 12 V / 120Ω 24 V / 400Ω
	Contact Rating	50 W	50 W	50 W	50 W
	Contact Current	3.0 Amp	3.0 Amp	3.0 Amp	3.0 Amp
	Carry Current	4.0 Amp	4.0 Amp	4.0 Amp	4.0 Amp
	Switching Voltage	7500 VDC	10000 VDC	7500 VDC	10000 VDC
	Contact Voltage	10000 VDC	15000 VDC	10000 VDC	15000 VDC
	Contact Resistance	200 mΩ	200 mΩ	500 mΩ	500 mΩ
	Insulation Resistance	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.
	Operate Time	3.0 mS	3.0 mS	5.0 mS	5.0 mS
	Release Time	1.5 mS	1.5 mS	5.0 mS	5.0 mS
	Reflow temperature				
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	DC.1.0V,10mA 100×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸	DIMENSION				
	Ordering Code :				
備註	□□ =05 coil = 5 VDC				
	□□ =12 coil =12 VDC				
	□□ =24 coil =24 VDC				

TPM Part / No.		HA708-109□□			
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm		85.7 x 19.7 x 18.2			
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A			
	Coil Rating Voltage	5 V / 20Ω 12 V / 100Ω 24 V / 300Ω			
	Contact Rating	250 W			
	Contact Current	5.0 Amp			
	Carry Current	10.0 Amp			
	Switching Voltage	8000 VDC			
	Contact Voltage	9000 VDC			
	Contact Resistance	50 mΩ			
	Insulation Resistance	10 ¹⁰ Ω min.			
	Operate Time	10.0 mS			
	Release Time	6.0 mS			
	Reflow temperature				
電氣壽命 (代表例) Electrical Life		DC.1.0V,10mA 1000×10 ⁶ (R負荷)			
High-frequency response					
外觀尺寸	DIMENSION				
	Ordering Code :				
	備註		□□ =05 coil = 5 VDC		
			□□ =12 coil =12 VDC		
		□□ =24 coil =24 VDC			