



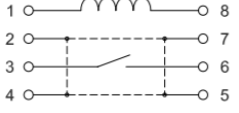
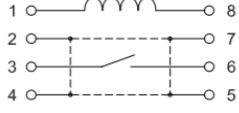
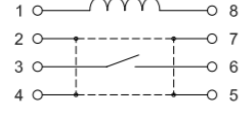
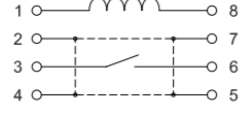
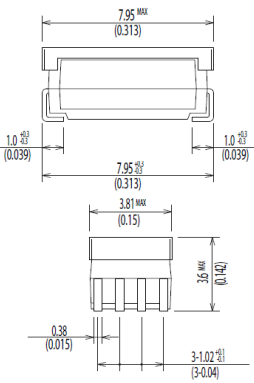
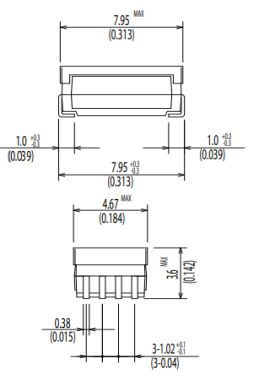
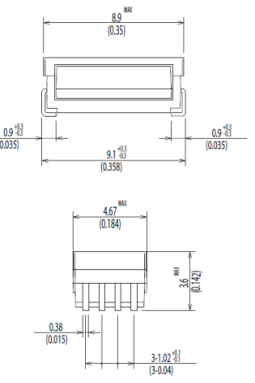
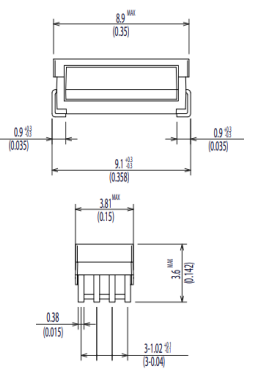




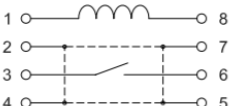
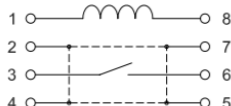
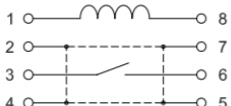
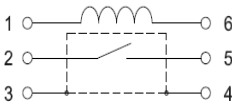
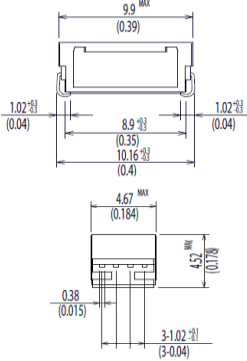
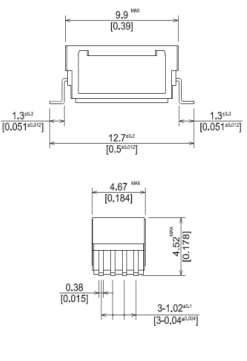
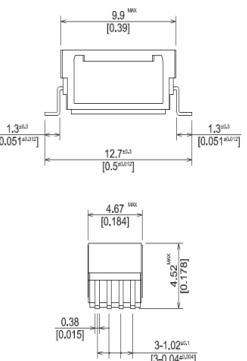
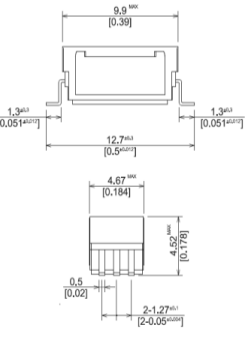






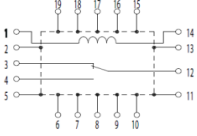
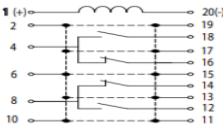
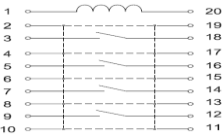
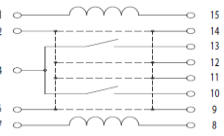
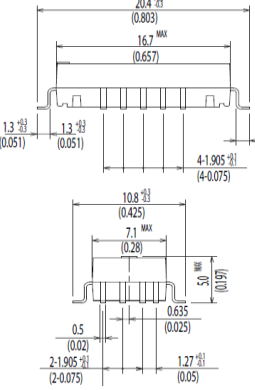
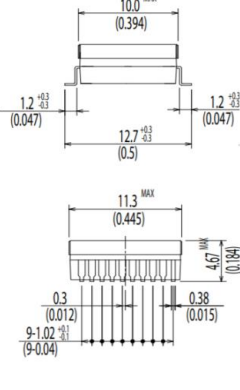
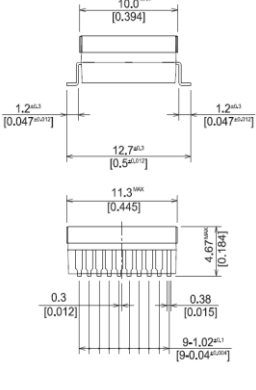
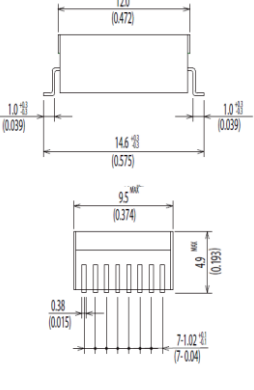
TPM Part / No.		2H-54WJ(3.3V) 2H-14WJ(5V)	2R-54J(3.3V) 2R-14J(5V)		9H-50J(3.3V) 9H-10J(5V)
SANYU Part / No.			UJ-103RF(3.3V) UJ-105RF(5V)	CJ-E103RF(3.3V) CJ-E105RF(5V)	
外觀形狀 Appearance		ATE Grade 	ATE Grade 	ATE Grade 	ATE Grade 
尺寸 Size (LxWxH) mm		7.95 x 3.8 x 3.6	7.95 x 4.6 x 3.6	9.1 x 4.6 x 3.6	9.1 x 3.8 x 3.6
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	3.3 V / 60Ω 5 V / 100Ω	3.3 V / 90Ω 5 V / 150Ω	3.3 V / 90Ω 5 V / 150Ω	3.3 V / 100Ω 5 V / 200Ω
	Contact Rating	3 W	3 W	10 W	10 W
	Contact Current	0.2 Amp	0.2 Amp	0.5 Amp	0.5 Amp
	Carry Current	0.2 Amp	0.2 Amp	1.0 Amp	1.0 Amp
	Switching Voltage	100 VDC	100 VDC	100 VDC	100 VDC
	Contact Voltage	150 VDC	150 VDC	200 VDC	200 VDC
	Contact Resistance	200 mΩ	200 mΩ	150 mΩ	150 mΩ
	Insulation Resistance	10 ¹² Ω min.	10 ¹² Ω min.	10 ¹¹ Ω min.	10 ¹² Ω min.
	Operate Time	0.25 mS	0.25 mS	0.3 mS	0.3 mS
	Release Time	0.05 mS	0.05 mS	0.05 mS	0.05 mS
	Operating temperature				
Reflow temperature		260 °C max for 60sec.	260 °C max for 60sec.	260 °C max for 60sec.	
電氣壽命 (代表例) Electrical Life		DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)
High-frequency response		7.0GHz @ -2dB	8.0GHz @ -3dB	7.0GHz @ -3dB	4.0GHz @ -3dB
外觀尺寸	DIMENSION				


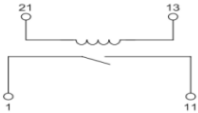
TPM Part / No.	1H-54J(3.3V) 1H-14J(5V) 1H-24J(12V)	1D-14G(5V)	1EH-14G-63(5V)	1EH-12G1(5V)	
SANYU Part / No.					
外觀形狀 Appearance	ATE Grade 	ATE Grade 	ATE Grade 	ATE Grade 	
尺寸 Size (LxWxH) mm	10.1 x 4.6 x 4.5	12.7 x 4.6 x 4.5	12.7 x 4.6 x 4.5	12.7 x 4.6 x 4.5	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	1 Form A	1 Form A	
	Coil Rating Voltage	3.3 V / 80Ω 5 V / 150Ω 12 V / 500Ω	5 V / 150Ω	5 V / 200Ω	5 V / 250Ω
	Contact Rating	10 W	5 W	10 W	10 W
	Contact Current	0.5 Amp	0.2 Amp	0.5 Amp	0.5 Amp
	Carry Current	1.0 Amp	0.75 Amp	1.0 Amp	1.0 Amp
	Switching Voltage	100 VDC	50 VDC	100 VDC	100 VDC
	Contact Voltage	200 VDC	150 VDC	200 VDC	200 VDC
	Contact Resistance	150 mΩ	150 mΩ	150 mΩ	150 mΩ
	Insulation Resistance	10 ¹² Ω min.	10 ¹¹ Ω min.	10 ¹² Ω min.	10 ¹¹ Ω min.
	Operate Time	0.3 mS	0.3 mS	0.3 mS	0.3 mS
	Release Time	0.05 mS	0.05 mS	0.05 mS	0.05 mS
	Operating temperature				
Reflow temperature	260 °C max for 60sec.	230 °C max for 10sec.	260 °C max for 60sec.	250 °C max for 40sec.	
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	
High-frequency response	4.0GHz @ -3 dB	4.0GHz @ -3 dB	6.0GHz @ -3 dB	4.0GHz @ -3 dB	
外觀尺寸 DIMENSION					

TPM Part / No.		17EH-1A12G-01(5V) 17EH-1A22G-01(12V)			10H-1A12G(5V) 10H-1A22G(12V)
SANYU Part / No.			MSG-105AKE(5V)	MSG-105AK(5V)	
外觀形狀 Appearance					
尺寸 Size (LxWxH) mm		18.4 x 5.0 x 5.0	20.6 x 4.5 x 5.3	20.4 x 4.5 x 4.9	20.4 x 4.5 x 4.9
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 / 200Ω 12 V / 825Ω	5 V / 160Ω	5 V / 160Ω	5 V / 160Ω 12 V / 600Ω
	Contact Rating	30 W	10 W	10 W	30 W
	Contact Current	0.5 Amp	0.5 Amp	0.5 Amp	0.5 Amp
	Carry Current	1.3 Amp	1.0 Amp	1.0 Amp	1.3 Amp
	Switching Voltage	200 VDC	100 VDC	100 VDC	200 VDC
	Contact Voltage	300 VDC	200 VDC	200 VDC	300 VDC
	Contact Resistance	150 mΩ	150 mΩ	150 mΩ	150 mΩ
	Insulation Resistance	10 ¹² Ω min.	10 ¹² Ω min.	10 ¹¹ Ω min.	10 ¹² Ω min.
	Operate Time	0.4 mS	0.5 mS	0.5 mS	0.5 mS
	Release Time	0.2 mS	0.2 mS	0.3 mS	0.3 mS
	Operating temperature				
Reflow temperature	245 °C max for 40sec.	230 °C max for 10sec.	230 °C max for 10sec.	260 °C max for 60sec.	
電氣壽命 (代表例) Electrical Life		DC.1.0V,10mA 1500×10⁶ (R負荷)	DC.1.0V,10mA 1000×10⁶ (R負荷)	DC.1.0V,10mA 1000×10⁶ (R負荷)	DC.1.0V,10mA 1500×10⁶ (R負荷)
High-frequency response		2.0GHz @ -3 dB	2.5GHz @ -3 dB	2.5GHz @ -3 dB	2.5GHz @ -3 dB
外觀尺寸	DIMENSION				

TPM Part / No.	1EH-2A52J(3.3V) 1EH-2A12J(5V) 1EH-2A22J(12V)		3H-2A56J(3.3V) 3H-2A16J(5V) 3H-2A26J(12V)	10H-2A12G(5V) 10H-2A22G(12V)	
SANYU Part / No.		MG-E203AH(3.3V) MG-E205AH(5V) MG-E212AH(12V)	MJ-E203AH(3.3V) MJ-E205AH(5V) MJ-E212AH(12V)		
外觀形狀 Appearance					
尺寸 Size (LxWxH) mm	10.1 x 5.0 x 8.2	12.7 x 6.7 x 4.9	10.8 x 6.7 x 5.1	20.4 x 7.0 x 4.9	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	2 Form A	2 Form A	2 Form A	2 Form A
	Coil Rating Voltage	3.3 V / 70Ω 5 V / 110Ω 12 V / 550Ω	3.3 V / 70Ω 5 V / 110Ω 12 V / 550Ω	3.3 V / 70Ω 5 V / 110Ω 12 V / 550Ω	5 V / 140Ω 12 V / 600Ω
	Contact Rating	10 W	10 W	10 W	30 W
	Contact Current	0.5 Amp	0.5 Amp	0.5 Amp	0.5 Amp
	Carry Current	1.0 Amp	1.0 Amp	1.0 Amp	1.3 Amp
	Switching Voltage	100 VDC	100 VDC	100 VDC	200 VDC
	Contact Voltage	200 VDC	200 VDC	200 VDC	300 VDC
	Contact Resistance	150 mΩ	150 mΩ	150 mΩ	150 mΩ
	Insulation Resistance	10 ¹¹ Ω min.	10 ¹¹ Ω min.	10 ¹² Ω min.	10 ¹² Ω min.
	Operate Time	0.5 mS	0.5 mS	0.5 mS	0.5 mS
	Release Time	0.5 mS	0.5 mS	0.5 mS	0.5 mS
	Operating temperature				
Reflow temperature	245° C max for 40sec.	260° C max for 60sec.	260° C max for 60sec.	260° C max for 60sec.	
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 1500x10⁶ (R負荷)	
High-frequency response	3.0GHz @ -3 dB	4.5GHz @ -3 dB	5.0GHz @ -3 dB	2.5GHz @ -3 dB	
外觀尺寸 DIMENSION					

TPM Part / No.	190H-2A12J-81(5V) 190H-2A22J-81(12V)	1H-1T53G(3.3V) 1H-1T13G(5V) 1H-1T23G(12V)	3H-55G(3.3V) 3H-15G(5V) 3H-25G(12V)	190H-1T12J(5V) 190H-1T22J(12V) 190H-1T32J(24V)	
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (LxWxH) mm	27.0 x 11.5 x 8.9	12.7 x 5.0 x 7.9	12.7 x 7.6 x 4.9	27.0 x 11.5 x 8.9	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	2 Form A	1 Form C (1A+1B)	1 Form C (1A+1B)	1 Form C (1A+1B)
	Coil Rating Voltage	5 V / 150Ω 12 V / 800Ω	3.3 V / 70Ω 5 V / 110Ω 12 V / 550Ω	3.3 V / 70Ω 5 V / 110Ω 12 V / 550Ω	5 V / 150Ω 12 V / 800Ω 24 V / 3000Ω
	Contact Rating	100 W	10 W	10 W	50 W
	Contact Current	1.0 Amp	0.5 Amp	0.5 Amp	0.5 Amp
	Carry Current	2.8 Amp	1.0 Amp	1.0 Amp	2.8 Amp
	Switching Voltage	1000 VDC	100 VDC	100 VDC	350 VDC
	Contact Voltage	2000 VDC	200 VDC	200 VDC	400 VDC
	Contact Resistance	150 mΩ	150 mΩ	150 mΩ	150 mΩ
	Insulation Resistance	10 ¹² Ω min.	10 ¹² Ω min.	10 ¹² Ω min.	10 ¹¹ Ω min.
	Operate Time	1.5 mS	0.5 mS	0.5 mS	1.5 mS
	Release Time	1.0 mS	0.5 mS	0.5 mS	1.5 mS
	Operating temperature				
Reflow temperature	260 °C max for 60sec.	260 °C max for 60sec.	260 °C max for 60sec.	245 °C max for 40sec.	
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 100x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 1000x10⁶ (R負荷)	
High-frequency response	1.0GHz @ -3dB	3.0GHz @ -3 dB	3.5GHz @ -3 dB	1.0GHz @ -3dB	
外觀尺寸 DIMENSION					

TPM Part / No.	10H-1T56G(3.3V) 10H-1T16G(5V)	1H-2T18G(5V) 1H-2T28G(12V)	1H-4A18G(5V) 1H-4A28G(12V)	1H-2M12G(5V) 1H-2M22G(12V)	
SANYU Part / No.					
外觀形狀 Appearance		ATE Grade 	ATE Grade 	ATE Grade 	
尺寸 Size (LxWxH) mm	20.4 x 10.8 x 5.0	12.7 x 11.3 x 4.6	12.7 x 11.3 x 4.6	14.6 x 9.5 x 4.9	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form C	2 Form C (A+B)	4 Form A	2 Form A
	Coil Rating Voltage	3.3 V / 70Ω 5 V / 120Ω	5 V / 110Ω 12 V / 550Ω	5 V / 110Ω 12 V / 550Ω	5 V / 150Ω 12 V / 500Ω
	Contact Rating	3 W	10 W	10 W	10 W
	Contact Current	0.2 Amp	0.5 Amp	0.5 Amp	0.5 Amp
	Carry Current	0.5 Amp	1.0 Amp	1.0 Amp	1.0 Amp
	Switching Voltage	100 VDC	100 VDC	100 VDC	100 VDC
	Contact Voltage	200 VDC	200 VDC	200 VDC	200 VDC
	Contact Resistance	150 mΩ	150 mΩ	150 mΩ	150 mΩ
	Insulation Resistance	10 ¹⁰ Ω min.	10 ¹² Ω min.	10 ¹¹ Ω min.	10 ¹² Ω min.
	Operate Time	1.5 mS	0.3 mS	0.3 mS	0.5 mS
	Release Time	2.0 mS	0.2 mS	0.2 mS	0.5 mS
	Operating temperature				
Reflow temperature	260 °C max for 60sec.	260 °C max for 60sec.	260 °C max for 60sec.	260 °C max for 60sec.	
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 50x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	DC.1.0V,10mA 300x10 ⁶ (R負荷)	
High-frequency response	7.5GHz @ -3 dB	4.0GHz @ -3 dB	8.0GHz @ -3dB	2.0GHz @ -3dB	
外觀尺寸 DIMENSION					

TPM Part / No.		113D-1A10N2G(5V) 113D-1A20N2G(12V)		
SANYU Part / No.				
外觀形狀 Appearance		<p>ATE Grade</p> 		
尺寸 Size (LxWxH) mm		30.2 x 17.0 x 8.7		
回路接續圖 Figure.(TOP VIEW)				
電氣規格	Contact Form	1 Form A		
	Coil Rating Voltage	5 V / 80Ω 12 V / 500Ω		
	Contact Rating	100 W		
	Contact Current	1.0 Amp		
	Carry Current	2.8 Amp		
	Switching Voltage	1000 VDC		
	Contact Voltage	3000 VDC		
	Contact Resistance	150 mΩ		
	Insulation Resistance	10 ¹² Ω min.		
	Operate Time	1.5 mS		
	Release Time	1.5 mS		
	Operating temperature			
	Reflow temperature	260 °C max for 60sec.		
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 100x10 ⁶ (R負荷)			
High-frequency response				
外觀尺寸 DIMENSION	