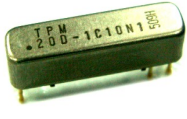

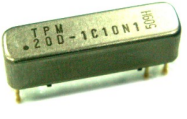




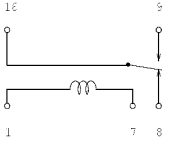
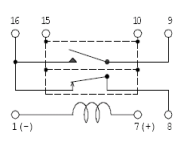
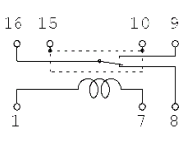
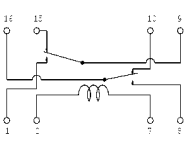
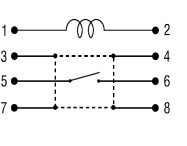
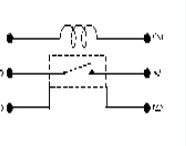
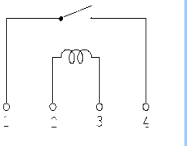


TPM Part / No.	20R-1A11N1	20R-1A11E1	20R-1A12N1	20R-2A11N1	23R-2A10N2	
SANYU Part / No.	S-E105N	S-105LDN		S-205N		
C社 Part / No.	2200-2301-01	2200-2301-01	2200-2302	2200-2311	2332-05-00	
外觀形狀 Appearance						
尺寸 Size (LxWxH) mm	20 x 5.0 x 6.0	20 x 5.0 x 6.7	20 x 5.0 x 6.0	20 x 7.6 x 6.0	20 x 5.0 x 9.0	
回路接續圖 Figure. (TOP VIEW)						
電氣規格	接點構成 Contact Form	1A	1A (附LED&Diode)	1A	2A	2A
	線圈電壓 / 阻抗 Coil Rating Voltage	5V / 160Ω 12V / 600Ω	5V / 160Ω 12V / 600Ω	5V / 200Ω 12V / 1000Ω	5V / 150Ω 12V / 600Ω	5V / 175Ω 12V / 1000Ω
	接點容量 (max) Contact Rating	10W / E=30W	10W	10W	10W	10W
	切換電流 (max) Contact Current	0.5A	0.5A	0.5A	0.5A	0.5A
	通電電流 (max) Carry Current	1.0A	1.0A	1.0A	1.0A	1.0A
	切換電壓 (max) Switching Voltage	200VDC	200VDC	200VDC	100VDC	200VDC
	接點間耐電壓 Contact Voltage	300VDC	200VDC	300VDC	200VDC	250VDC
	接點阻抗 (max) Contact Resistance	150 mΩ	150 mΩ	150 mΩ	150 mΩ	150 mΩ
	絕緣阻抗(各導體相互間) Insulation Resistance	10 ¹¹ Ω	10 ¹⁰ Ω	10 ¹¹ Ω	10 ¹¹ Ω	10 ¹¹ Ω
	動作時間 (max) Operate Time	0.35ms	0.35ms	0.35ms	0.50ms	0.50ms
	回復時間 (max) Release Time	0.25ms	0.25ms	0.25ms	0.50ms	0.15ms
壽命	機械壽命 (min) Mechanical Life	1.5×10 ⁹	1×10 ⁹	1.0×10 ⁹	1×10 ⁹	1×10 ⁹
	電氣壽命 (代表例) Electrical Life	DC.10V,10mA 1×10 ⁸ (R負荷)	DC.10V,10mA 1×10 ⁸ (R負荷)	DC.10V,10mA 1×10 ⁸ (R負荷)	DC.10V,10mA 1×10 ⁸ (R負荷)	DC.10V,10mA 1×10 ⁹ (R負荷)
高周波特性	T.D.R Impedance	DC~500MHz/50Ω	DC~500MHz/50Ω	DC~500MHz/50Ω	DC~500MHz/50Ω	DC~500MHz/50Ω
	Return Loss (Typ)	200 MHz	18.0 dB	19.0 dB		
		500 MHz	11.0 dB	12.0 dB		
	Insertion Loss (Typ)	200 MHz	0.32 dB	0.32 dB		
		500 MHz	0.80 dB	0.75 dB		
	Isolation Loss (Typ)	200 MHz	36.0 dB	35.0 dB		
		500 MHz	26.0 dB	26.0 dB		
	Rise Time (Typ)		380ps	380ps		
	Capacitance (Open Contact)					
	Capacitance (Contact of shield)					
Test Report						
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COTO RELAY Cross Reference

20D-1C10N1	21R-1E10N2	20D-1C12N1		1D-14G	17D-1A12J-01	
	ST-E1T05BD	S-105TS	ST-2C12A	MG-105	MUJ-105SK3	JS-105S-02
2211-05-301	2341-05-020	2211-05-321	2342-12-00	9802-05-00	9402/5/20	9091-05-00
						
20 x 5.0 x 6.0	20 x 5.0 x 9.0	20 x 5.0 x 6.0	20 x 5.0 x 9.5	9.7x4.6x4.5	15.5 x 5 x 5.7	15.24x3.8x7.0
						
1C	1A+1B (Long Life Type)	1C	2C	1A	1A	1A
5V / 150Ω 12V / 900Ω	5V / 230Ω 12V / 1000Ω	5V / 160Ω 12V / 600Ω	5V / 175Ω 12V / 1000Ω	5V / 150Ω 12V / 500Ω	5V / 200Ω 12V / 825Ω	5V / 500Ω 12V / 1000Ω
3W	10W	3W	3W	5W	10W	10W
0.2A	0.5A	0.2A	0.2A	0.2A	0.5A	0.5A
0.5A	1.5A	0.5A	0.5A	0.5A	1.0A	1.3A
30VDC	200VDC	30VDC	100VDC	50VDC	100VDC	200VDC
200VDC	250VDC	200VDC	200VDC	150VDC	250VDC	200VDC
150 mΩ	150 mΩ	150 mΩ	150 mΩ	150 mΩ	150 mΩ	150 mΩ
10 ¹⁰ Ω	10 ¹² Ω	10 ¹¹ Ω	10 ⁹ Ω	10 ¹¹ Ω	10 ¹¹ Ω	10 ¹² Ω
1.0ms	0.5 ms	1.5ms	1.5ms	0.30ms	0.50ms	0.30ms
2.0ms	0.5 ms	2.0ms	2.0ms	0.05ms	0.50ms	0.20ms
5×10 ⁷	1.5×10 ⁹	5×10 ⁷	1×10 ⁸	3×10 ⁸	1×10 ⁹	1.5×10 ⁹
DC.1V,10mA 5×10 ⁷ (R負荷)	DC.1.0V,10mA 1.5×10 ⁹ (R負荷)	DC.1V,10mA 5×10 ⁷ (R負荷)	DC.10V,10mA 1×10 ⁸ (R負荷)	DC.10V,10mA 1×10 ⁸ (R負荷)	DC.1.0V,10mA 1×10 ⁹ (R負荷)	DC.1.0V,10mA 1.5×10 ⁹ (R負荷)
DC~500MHz/50Ω				DC~3.0GHz/50Ω		
26.0 dB				19.3dB @500MHz		
14.0 dB				15.7dB @2GHz		
0.28 dB				0.38dB @500MHz		
0.62 dB				0.74dB @2GHz		
26.0 dB				29.3dB @500MHz		
19.0 dB				15.5dB @2GHz		
370ps				270ps		
				0.75pF/TYP		
				0.92pF/TYP		
				P91		
2-6		2-7	3-1	1-1		

