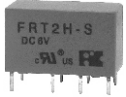



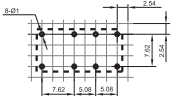
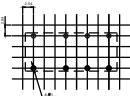
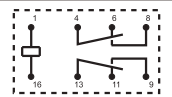
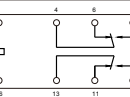
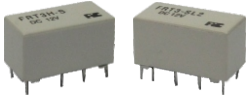



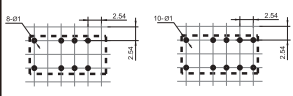
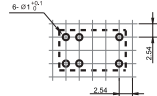
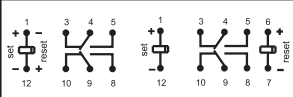
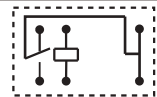




Type	FRT2	FRT2S	
Appearance			
Dimensions: L x W x H (mm)	21 x 10.8 x 12.3	20.5 x 10.2 x 12.5	
International Security Certificates	 us: E141516	 us: E141516	
Coil Voltage (V)	DC3, 5, 6, 9, 12, 24, 48	DC3, 5, 6, 9, 12, 24, 48	
Coil Power	0.2W, 0.36W, 0.5W	0.15W, 0.2W, 0.4W, 0.56W	
Contact Material	AgNi, Ag(Au clad)	AgNi (Au clad), AgPd (Au clad)	
Contact Arrangement	2C	2C	
Contact transfer current (A)	80A 70A 50A 40A 30A 20A 15A 10A 5A 1A	80A 70A 50A 40A 30A 20A 15A 10A 5A 1A	
Contact rating	3A 28VDC 1A 125VAC	3A 30VDC 0.6A 125VAC	
Max. Switching Power	84W 125VA	90W 125VA	
Max. Switching Voltage	30VDC 220VAC	220VDC 250VAC	
Ambient temperature	-30°C ~ +70°C	-40°C ~ +90°C	
Dielectric Strength	Between Contacts	50Hz 750VAC	50Hz 1,000VAC
	Between Contact and Coil	50Hz 1,000VAC	50Hz 1,000VAC
Insulation Resistance	1,000MΩ	1,000MΩ	
Initial Contact Resistance	≤100mΩ	≤100mΩ	
Electrical Life (Operations)	1 x 10 <sup>5</sup>	AgNi : 1 x 10 <sup>5</sup> AgPd: 3 x 10 <sup>5</sup>	
Mechanical Life (Operations)	1 x 10 <sup>7</sup>	1 x 10 <sup>7</sup>	
Weight (Approx.)	5g	4.5g	
Mounting Layout (Bottom View) (mm)			
Wiring Diagram (Bottom View)			
Cross Reference	Matsushita: DS-2Y Omron : G5V-2 TYCO : V23105	Matsushita: DS-2Y Omron : G5V-2 TYCO : V23105	

FRT3	FRT4	
		
20.2 x 10.2 x 10.6	12.5 x 7.5 x 10	
 us: E141516	 us: E141516	
Single side: DC3, 5, 6, 9, 12, 15, 24, 48 1 coil : DC3, 5, 6, 9, 12, 15, 24 2 coils : DC3, 5, 6, 9, 12, 15, 24	DC1.5, 3, 5, 6, 9, 12, 24	
0.075W, 0.1W, 0.15W, 0.2W	0.15W, 0.2W	
Ag (Au clad), AgPd	Ag (Au clad), AgNi (Au clad)	
2C	1A, 1C	
80A 70A 50A 40A 30A 20A 15A 10A 5A 1A	80A 70A 50A 40A 30A 20A 15A 10A 5A 1A	
3A	1A	
3A 30VDC 1A 125VAC	1A 30VDC 0.5A 125VAC	
90W 125VA	30W 62.5VA	
220VDC 250VAC	60VDC 125VAC	
-40°C ~ +85°C	-30°C ~ +70°C	
50Hz 1,000VAC	50Hz 400VAC	
1 coil : 50Hz 1,500VAC 2 coils: 50Hz 1,000VAC	50Hz 1,000VAC	
1,000MΩ	1,000MΩ	
≤50mΩ	≤100mΩ	
1A 30VDC: 5 x 10 <sup>5</sup> 2A 30VDC: 1 x 10 <sup>5</sup> 3A 30VDC: 5 x 10 <sup>4</sup>	1 x 10 <sup>5</sup>	
1 x 10 <sup>5</sup>	5 x 10 <sup>5</sup>	
4.5g	2.2g	
		
		
Matsushita: DS2Y Omron : G6A-2 TYCO : V23042	Matsushita: HY Omron : G5V-1 TYCO : 23111	



Type	FRT5	FRT5S
Appearance		
Dimensions: L x W x H (mm)	14.3 x 9.3 x 5	14.3 x 9.3 x 5.3
International Security Certificates	us: E141516	us: E141516
Coil Voltage (V)	DC3, 4.5, 5, 6, 9, 12, 24	DC3, 4.5, 5, 6, 9, 12, 24
Coil Power	0.1W, 0.14W, 0.2W, 0.3W	0.1W, 0.14W
Contact Material	AgPd (Au clad)	AgNi (Au clad)
Contact Arrangement	2C	2C
Contact transfer current (A)	80A 70A 50A 40A 30A 20A 15A 10A 5A 1A	80A 70A 50A 40A 30A 20A 15A 10A 5A 1A
Contact rating	2A 30VDC 0.5A 125VAC	2A 30VDC 0.5A 125VAC
Max. Switching Power	60W 62.5VA	60W 62.5VA
Max. Switching Voltage	220VDC 250VAC	220VDC 250VAC
Ambient temperature	-40°C ~ +70°C	-40°C ~ +85°C
Dielectric Strength	Between Contacts	50Hz 1,000VAC
	Between Contact and Coil	50Hz 1,000VAC
Insulation Resistance	1,000MΩ	1,000MΩ
Initial Contact Resistance	≤50mΩ	≤50mΩ
Electrical Life (Operations)	1A 30VDC : 2 x 10 <sup>5</sup> 0.5A 125VAC: 1 x 10 <sup>5</sup>	1A 30VDC : 2 x 10 <sup>5</sup> 0.5A 125VAC: 1 x 10 <sup>5</sup>
Mechanical Life (Operations)	1 x 10 <sup>8</sup>	1 x 10 <sup>8</sup>
Weight (Approx.)	1.5g	1.5g
Mounting Layout (Bottom View) (mm)		
Wiring Diagram (Bottom View)		
Cross Reference	Matsushita: TQ2 Omron : G6H TYCO : 23106	Matsushita: TQ2-SA Omron : G6H-2F TYCO : 23106

Type	FRT6	FRT6S
Appearance		
Dimensions: L x W x H (mm)	15 x 7.5 x 9	15 x 7.5 x 9.5
International Security Certificates	us: E141516	us: E141516
Coil Voltage (V)	DC1.5, 3, 4.5, 5, 6, 9, 12, 24, 48	DC1.5, 3, 4.5, 5, 6, 9, 12, 24, 48
Coil Power	0.1W, 0.14W, 0.2W	0.1W, 0.14W, 0.2W
Contact Material	AgNi (Au clad)	AgNi (Au clad)
Contact Arrangement	2C	2C
Contact transfer current (A)	80A 70A 50A 40A 30A 20A 15A 10A 5A 1A	80A 70A 50A 40A 30A 20A 15A 10A 5A 1A
Contact rating	2A 30VDC 0.5A 125VAC	2A 30VDC 0.5A 125VAC
Max. Switching Power	60W 62.5VA	60W 62.5VA
Max. Switching Voltage	220VDC 250VAC	220VDC 250VAC
Ambient temperature	-40°C ~ +85°C	-40°C ~ +85°C
Dielectric Strength	Between Contacts	50Hz 1,000VAC
	Between Contact and Coil	50Hz 3,000VAC
Insulation Resistance	1,000MΩ	1,000MΩ
Initial Contact Resistance	≤50mΩ	≤50mΩ
Electrical Life (Operations)	1A 30VDC : 5 x 10 <sup>5</sup> 2A 30VDC / 0.5A 125VAC: 1 x 10 <sup>5</sup>	1A 30VDC : 5 x 10 <sup>5</sup> 2A 30VDC / 0.5A 125VAC: 1 x 10 <sup>5</sup>
Mechanical Life (Operations)	1 x 10 <sup>8</sup>	1 x 10 <sup>8</sup>
Weight (Approx.)	2g	2g
Mounting Layout (Bottom View) (mm)		
Wiring Diagram (Bottom View)		
Cross Reference	Matsushita: TX Omron : G6S TYCO : 23079	Matsushita: TX Omron : G6S TYCO : 23079



Type	FRT7	FRT7S	
Appearance			
Dimensions: L x W x H (mm)	10 x 6.5 x 5.4	10 x 6.5 x 5.65	
International Security Certificates			
Coil Voltage (V)	DC1.5, 3, 4.5, 5, 6, 9, 12, 24	DC1.5, 3, 4.5, 5, 6, 9, 12, 24	
Coil Power	0.1W, 0.14W, 0.2W	0.1W, 0.14W, 0.2W	
Contact Material	AgNi (Au clad)	AgNi(Au clad)	
Contact Arrangement	2C	2C	
Contact transfer current (A)	80A 70A 50A 40A 30A 20A 15A 10A 5A 1A	80A 70A 50A 40A 30A 20A 15A 10A 5A 1A	
Contact rating	2A 30VDC 0.5A 125VAC	2A 30VDC 0.5A 125VAC	
Max. Switching Power	60W 62.5VA	60W 62.5VA	
Max. Switching Voltage	220VDC 250VAC	220VDC 250VAC	
Ambient temperature	-40°C ~ +85°C	-40°C ~ +85°C	
Dielectric Strength	Between Contacts	50Hz 1,000VAC	50Hz 1,000VAC
	Between Contact and Coil	50Hz 1,800VAC	50Hz 1,800VAC
Insulation Resistance	1,000MΩ	1,000MΩ	
Initial Contact Resistance	≤70mΩ	≤70mΩ	
Electrical Life (Operations)	5 x 10 <sup>5</sup>	5 x 10 <sup>5</sup>	
Mechanical Life (Operations)	1 x 10 <sup>8</sup>	1 x 10 <sup>8</sup>	
Weight (Approx.)	0.8g	0.8g	
Mounting Layout (Bottom View) (mm)			
Wiring Diagram (Bottom View)			
Cross Reference	Matsushita: GQ Omron : G6K TYCO : Axicom IM	Matsushita: GQ Omron : G6K TYCO : Axicom IM	