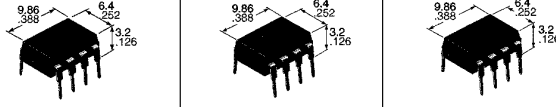
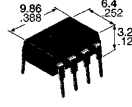
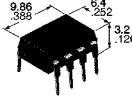
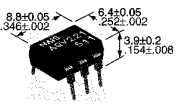
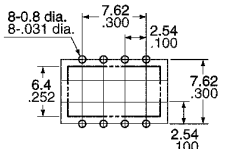
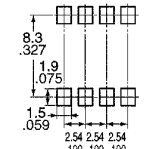
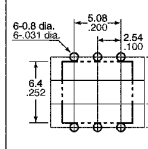
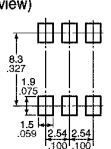



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Type of relay		GU-E Type				RF Type	
		2a Types		1a1b Types	2b Types	1a Type	
		AC/DC Type		AC/DC Type	AC/DC Type	AC/DC Type	
							
						Reinforced I/O isolation type	
Features		<ul style="list-style-type: none"> <li>General use and economy type</li> <li>DIP (2 Form A) 8-pin type</li> </ul>		<ul style="list-style-type: none"> <li>General use and economy type</li> <li>DIP (1 Form A 1 Form B) 8-pin type</li> </ul>	<ul style="list-style-type: none"> <li>General use and economy type</li> <li>DIP (2 Form B) 8-pin type</li> </ul>	<ul style="list-style-type: none"> <li>For high frequency applications</li> <li>High speed switching</li> </ul>	
		Part No.	AQW210EH	AQW214EH	AQW614EH	AQW414EH	AQV221
Load voltage	Peak AC	350 V	400 V	400 V	400 V	40 V	80 V
	DC	350 V	400 V	400 V	400 V	40 V	80 V
Continuous load current	1 A						
	0.5 A						
Peak load current	0.12 A	0.12 A	0.1 A	0.1 A	0.1 A	0.08 A	0.05 A
	0.3 A	0.36 A	0.3 A	0.3 A	0.3 A	0.18 A	0.15 A
Power dissipation*		800 mW	800 mW	800 mW	800 mW	230 mW	
ON resistance	Typical	18 Ω	26 Ω	26 Ω	26 Ω	22 Ω	36 Ω
	Maximum	25 Ω	35 Ω	35 Ω	35 Ω	35 Ω	50 Ω
Output capacitance (Typical)		45 pF	45 pF(N.O.), 100 pF(N.C.)	100 pF	100 pF	5.6 pF	4.8 pF
Off state leakage current		Max. 1 μA	Max. 1 μA(N.O.), 10 μA(N.C.)	Max. 10 μA	Max. 10 μA	Max. 10 nA	
LED forward current*		50 mA	50 mA	50 mA	50 mA	50 mA	
LED reverse voltage*		3 V	3 V	3 V	3 V	3 V	
Peak forward current		1 A	1 A	1 A	1 A	1 A	
Power dissipation*		75 mW	75 mW	75 mW	75 mW	75 mW	
LED operate current (LED on) (OFF current)	Typical	1.2 mA	1.3 mA	1.3 mA	1.3 mA	0.9 mA	3.0 mA
	Maximum	3.0 mA	3.0 mA	3.0 mA	3.0 mA	3.0 mA	3.0 mA
LED turn off current (LED reverse (ON) current)	Minimum	0.4 mA	0.4 mA	0.4 mA	0.4 mA	0.4 mA	0.85 mA
	Typical	1.1 mA	1.2 mA	1.2 mA	1.2 mA	1.2 mA	0.85 mA
LED dropout voltage (I <sub>b</sub> = 5 mA)	Typical	1.14 V	1.14 V	1.14 V	1.14 V	1.14 V	1.14 V
	Maximum	1.5 V	1.5 V	1.5 V	1.5 V	1.5 V	1.5 V
Switching speed	Turn on time (Operate (OFF) time)	Typical	0.5 ms	0.5 ms(N.O.), 0.8 ms(N.C.)	0.8 ms	0.10 ms	0.3 ms
	Maximum	2.0 ms	3.0 ms	3.0 ms	3.0 ms	0.3 ms	0.3 ms
Turn off time (Reverse (ON) time)	Typical	0.08 ms	0.08 ms(N.O.), 0.2 ms(N.C.)	0.2 ms	0.2 ms	0.03 ms	0.1 ms
	Maximum	1.0 ms	1.0 ms	1.0 ms	1.0 ms	0.1 ms	0.1 ms
Total power dissipation*		850 mW	850 mW	850 mW	850 mW	280 mW	
I/O isolation voltage*		5,000 V AC	5,000 V AC	5,000 V AC	5,000 V AC	1,500 V AC	
Temperature limits	Operating*	-40°C to +85°C -40°F to +185°F		-40°C to +85°C -40°F to +185°F		-40°C to +85°C -40°F to +185°F	
	Storage*	-40°C to +100°C -40°F to +212°F		-40°C to +100°C -40°F to +212°F		-40°C to +100°C -40°F to +212°F	
I/O capacitance	Typical	0.8 pF	0.8 pF	0.8 pF	0.8 pF	0.8 pF	
	Maximum	1.5 pF	1.5 pF	1.5 pF	1.5 pF	1.5 pF	
Initial I/O isolation resistance		1,000 MΩ	1,000 MΩ	1,000 MΩ	1,000 MΩ	Min. 1,000 MΩ	
Terminal layout (100, inch grid)	Through hole terminal (Bottom view)		Mounting pad (Top view)		Through hole terminal (Bottom view)	Surface mount terminal recommended mounting pad (Top view)	
							
					Tolerance: ±0.1 ±0.04		
Standards	UL (E43149), CSA (LR26550), BSI					UL (E43149), CSA (LR26550), TÜV	
Mounting method							

\*The values are absolute maximum ratings (25°C 77°F). [ ] : Representation in case of Form B type contact PhotoMOS Relay.