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RF (Radio Frequency) Type [1-Channel (Form A) Type]





FEATURES

1. High frequency characteristics with low capacitance between output terminals

Low capacitance: Typ. 5 pF (between output terminals)

Isolation loss: 40 dB or more (at 1 MHz) 2. High sensitivity, high speed re-

sponse

mm inch

Controls load current of 0.12 A (max.), with input current of 5 mA.

Operate time is 100 μ s (Typical)

3. Low-level off state leakage current PhotoMOS AQV22O types exhibit an OFF state leakage current in the order of 100 picoamperes at a load voltage of 80 V compared with several milliamperes in solid-state relay. 4. Controls low-level analog signals

PhotoMOS relay features extremely low closed-circuit offset voltages to enable control of small analog signals without distortion.

5. Low terminal electromotive force (Approx. 1 mV)6. Small LED voltage drop on input side (Max. 1.5 V)

TYPICAL APPLICATIONS

Measuring devices

- Scanner, IC checker, Board tester • Audio visual equipment
- CD, VCR

TYPES

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Туре	Output rating*			Part				
	Load voltage	Load current	Through hole terminal	Surface-mount terminal			Packing quantity	
			Tube packing style		Tape and reel packing style			
					Picked from the 1/2/3-pin side	Picked from the 4/5/6-pin side	Tube	Tape and reel
AC/DC type	40 V	80 mA	AQV221	AQV221A	AQV221AX	AQV221AZ	1 tube contains 50 pcs. 1 batch contains 500 pcs.	1,000 pcs
	80 V	50 mA	AQV225	AQV225A	AQV225AX	AQV225AZ		

*Indicate the peak AC and DC values.

Note: For space reasons, the package type indicator "X" and "Z" are omitted from the seal.

RATING

1. Absolute maximum ratings (Ambient temperature: 25°C 77°F)

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	Symbol	Type of connec- tion	AQV221(A)	AQV225(A)	Remarks	
Input	LED forward current	lF		50 mA		
	LED reverse voltage	VR		3		
	Peak forward current	IFP		1 A		f = 100 Hz, Duty factor = 0.1%
	Power dissipation	Pin		75 mW		
Output	Load voltage (Peak AC)	VL		40 V	80 V	
		IL .	A	0.08 A	0.05 A	A connection: Peak AC, DC
	Continuous load current		В	0.09 A	0.06 A	
			С	0.12 A	0.075 A	
	Peak load current	I _{peak} P _{out}		0.18 A	0.15 A	A connection: 100 ms (1 shot), $V_L = DC$
	Power dissipation			230 mW		
Total power dis	Рт		280 mW			
I/O isolation vo	Viso		1,500 V AC			
Temperature limits	Operating	Topr		-40°C to +85°C -40°F to +185°F		Non-condensing at low temperatures
	Storage	Tstg		-40°C to +100°C -40°F to +212°F		