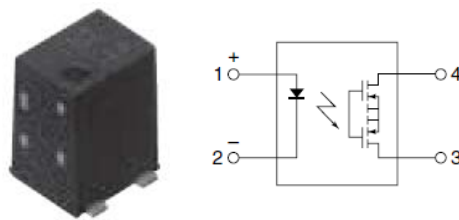


New Product Introduction

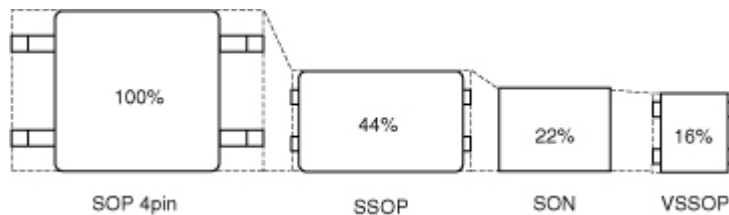
February 15, 2012

New AQY221 (VSSOP 1 Form A) PhotoMOS[®] Relays with Low Output Capacitance



1. Features:

- **Smallest mounting area in PhotoMOS[®] lineup.**



- **Low Output Capacitance**
 - **CxR5** (25V load voltage)
Output Capacitance (Cout): 1.1pF,
On Resistance (Ron): 5.5Ω
 - **CxR10** (40V load voltage)
Output Capacitance (Cout): 1.1pF,
On Resistance (Ron): 9.5Ω

2. Applications:

- **Measuring and testing equipment**
IC tester, Semiconductor performance tester and Probe card

3. Release Schedule: February 2012

4. Ordering Information:

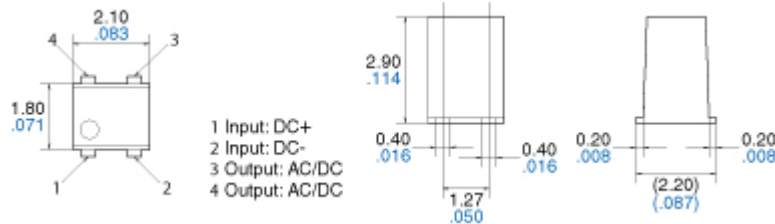
Type			Output rating*1		Part No. (Tape and reel packing style)*2		Packing quantity in the tape and reel
			Load voltage	Load current	Picked from the 1 and 4-pin side	Picked from the 2 and 3-pin side	
AC/DC type	C×R10	Low on resistance (R type)	40 V	250 mA	AQY221R2TY	AQY221R2TW	1,000 pcs.
		Low output capacitance (C type)	40 V	120 mA	AQY221N2TY	AQY221N2TW	
	C×R5	25 V	150 mA	AQY221N3TY	AQY221N3TW		

Notes: *1 Indicate the peak AC and DC values.

*2 Only tape and reel package is available.

For space reasons, only "1R2", "1N2" or "1N3" is marked on the product as the part number.

5. Technical Information: Please refer to attached datasheet for details.



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

Item		Symbol	C×R10 R type AQY221R2T	C×R10 C type AQY221N2T	C×R5 type AQY221N3T	Remarks
Input side	LED forward current	I_F	50 mA			
	LED reverse voltage	V_R	5 V			
	Peak forward current	I_{FP}	1 A			$f = 100 \text{ Hz}$, Duty factor = 0.1%
	Power dissipation	P_{in}	75 mW			
Output side	Load voltage (peak AC)	V_L	40 V	40 V	25 V	
	Continuous load current	I_L	0.25 A	0.12 A	0.15 A	Peak AC, DC
	Peak load current	I_{LPK}	0.75 A	—	—	100 ms (1shot), $V_L = \text{DC}$
	Power dissipation	P_{out}	250 mW			
Total power dissipation		P_T	300 mW			
I/O isolation voltage		V_{iso}	200 V AC			
Operating temperature		T_{op}	-40°C to +85°C -40°F to +185°F			Non-condensing at low temperatures
Storage temperature		T_{stg}	-40°C to +100°C -40°F to +212°F			

Any questions, please contact your local Panasonic Electric Works Sales representatives.

Ref#: M-412

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