



AQY225R2SZ | PhotoMOS RF SOP 1 Form A CxR



※Photo may vary from actual product.

RoHS compliant

Product Number	AQY225R2SZ
Part Number	AQY225R2SZ
Details	Surface-mount terminal, Tape and reel packing style (Z), Load voltage:80 V
Product name	PhotoMOS RF SOP 1 Form A CxR
Features	Miniature SOP4-pin type Low CxR 60V/80V load voltage

Spec Detail

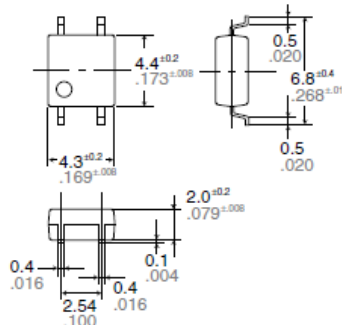
As of August 17, 2020

Specifications and design of the products are subject to change without notice for the product improvement.

Item	Specifications
Product Number	AQY225R2SZ
Part Number	AQY225R2SZ
Product name	RF SOP 1 Form A CxR
Type	RF
Package	SOP4
Voltage type	AC/DC
LED forward current [I_F]	50 mA
LED reverse voltage [V_R]	5 V
Peak forward current [I_{FP}]	1 A
Power dissipation [P_{in}]	75 mW
Load voltage [V_L]	80 V
Load current	0.15 A
Continuous load current [I_L]	0.15 A
Peak load current [I_{peak}]	0.45 A
Power dissipation [P_{out}]	300 mW
Total power dissipation [P_t]	350 mW
I/O isolation voltage [V_{iso}]	1,500 Vrms
Ambient temperature: Operating [T_{opr}]	-40 to +85°C -40 to +185°F
Ambient temperature: Storage [T_{stg}]	-40 to +100°C -40 to +212°F
LED operate current (Typical)	0.5 mA
LED operate current (Maximum)	3 mA

LED turn off current (Minimum)	0.1 mA
LED turn off current (Typical)	0.45 mA
LED dropout voltage (Typical) [V_F]	1.32 V
LED dropout voltage (Maximum) [V_F]	1.5 V
On resistance (Typical) [R_{on}]	10.5 ohm
ON resistance (Maximum) [R_{on}]	15 ohm
Output capacitance (Typical) [C_{out}]	4.5 pF
Output capacitance (Maximum) [C_{out}]	6 pF
Off state leakage current (Typical) [I_{Leak}]	0.01 nA
Off state leakage current (Maximum) [I_{Leak}]	10 nA
Over current protection	Nothing
Turn on time (Typical)	0.05 ms
Turn on time (Maximum)	0.5 ms
Turn off time (Typical)	0.05 ms
Turn off time (Maximum)	0.2 ms
I/O capacitance (Typical) [C_{iso}]	0.8 pF
I/O capacitance (Maximum) [C_{iso}]	1.5 pF
Initial I/O isolation resistance (Minimum) [R_{iso}]	1,000 M ohm
[Recommended operating conditions] LED current [I_F]	Min.: 5 mA, Max.: 30 mA
[Recommended operating conditions] Load voltage [V_L]	Max.: 40 V
[Recommended operating conditions] Continuous load current [I_L]	Max.: 0.15 A
Terminal shape	Surface-mount terminal
Contact arrangement	1 Form A
Packing style	Tape and reel packing style (Z)

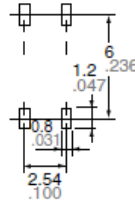
External dimensions



Terminal thickness = 0.15 ±.006 mm inch
 General tolerance: ±0.1 ±.004

Recommended mounting pad (Top view)

Recommended mounting pad (Top view)



mm inch

Tolerance: $\pm 0.1 \pm .004$

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