

**Postek (HK) Co., Limited | HK Series
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1. Product Overview

The HK-KWQMY1-0Z is a round-format hermetically sealed micro switch with welded metal shell construction. It provides exceptional EMI shielding, radiation resistance, and reliable operation across a wide temperature range from -65°C to +260°C. Available with solder or wire lead termination, the changeover (SPDT) circuit configuration makes it suitable for aerospace and high-reliability military applications.

Key Features

Round welded metal shell — hermetic seal, leak rate $\leq 1 \times 10^{-3}$ Pa·cm³/s
EMI shielding and radiation resistant
Changeover (SPDT) snap-action mechanism
Two termination options: Solder / Wire Lead
Operating temperature: -65°C to +260°C

Applications

Aerospace avionics
Military launch and flight systems
High-reliability power distribution
Severe environment instrumentation

2. Technical Specifications

2.1 Electrical Ratings by Model

Model	DC Voltage	Resistive Load	AC Load (400Hz)	Temperature Range	Termination
HK-KWQMY1-0Z	28V DC	5A	115V AC / 2A	-65°C ~ +260°C	Solder
HK-KWQMY1-0Z6	28V DC	5A	115V AC / 2A	-65°C ~ +260°C	Wire Lead

2.2 Mechanical Specifications

Parameter	Value
Operating Force	≤ 15 N
Release Force	≥ 4 N
Operating Stroke	0.3 ~ 0.6 mm
Differential Stroke	≤ 0.15 mm
Contact Resistance	≤ 0.05 Ω
Electrical Life	10,000 cycles
Seal Leakage Rate	$\leq 1 \times 10^{-3}$ Pa·cm ³ /s

2.3 Environmental Specifications

Parameter	Value
Sine Vibration	10~2000 Hz, 15g
Shock	50g
Humidity	10 days
Salt Spray	96 hours

3. Quality Grades & Standards

Quality Grade	Detail Specification
Military Grade (J)	Q/MA20365-2016
Type Spectrum	Q/MA30017-2019, Q/MA30018-2019
Conformity	ZZR-Q/MA20432-2019

4. Circuit Diagram

Circuit Diagram - HK-KWQMY1-0Z

Circuit Diagram: Changeover (SPDT)

5. Installation

Mounting: Secure with M2 screws. Use mounting washer.

Wiring: Solder or wire lead per model variant.

Force Limit: Do not exceed 40N on actuator.

△ Disconnect power before installation.

6. Downloads

[Download Datasheet \(PDF\)](#)

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