

HIGH ISOLATION. COMPACT. RELIABLE.

High-Isolation Automotive Grade Optocouplers for Demanding Applications



ISOCOM Components 2004 Ltd (UK) introduces ISPQ1202X and ISPQ1204X, a new series of phototransistor optocouplers delivering high isolation performance in a compact LSOP4 package. Designed for electric vehicle, industrial, and energy applications, these devices ensure reliable signal isolation and system safety in high-voltage environments.



WHY CHOOSE ISPQ1202X & ISPQ1204X?

ISPQ1202X



**HIGH ISOLATION
VOLTAGE**

5,000 Vrms

Input-output
isolation voltage
(Viso)



**CREEPAGE
DISTANCE**

8 mm

Ensures strong
insulation and safety
in high-voltage
designs



**HIGH CTR
PERFORMANCE**

ISPQ1202X: **100–300%**

ISPQ1204X: **200–600%**

Two current transfer
ratio (CTR) options



**COLLECTOR-
EMITTER
VOLTAGE**

80 V

Supports a wide
range of
automotive
circuits



**COMPACT
LSOP4 PACKAGE**

Space-saving
surface-mount
package for easy
PCB integration with
8 mm creepage
distance



**WIDE OPERATING
TEMPERATURE**

–55°C to +125°C

Suitable for
automotive and
industrial
environments

SAFETY & REGULATORY COMPLIANCE

AUTOMOTIVE GRADE

AEC-Q102



AEC-Q102 testing or
automotive-grade reliability



DIN EN 60747-5-5
Certified



UL 1577
Recognized Component
(File No. E91231)



Compliant
(EU RoHS 2015/863)

HIGH ISOLATION YOU CAN TRUST

**Creepage Distance
8 mm**



What is Creepage Distance?

It is the shortest path along the surface of the package insulation between input and output pins. A longer creepage distance helps prevent surface tracking and ensures reliable isolation performance in high-voltage and polluted environments.



**Reinforced
Isolation**

**5,000
Vrms**

TYPICAL APPLICATIONS



**Electric Vehicles
& EV Charging**



**Battery Management
Systems (BMS)**



**Solar Inverters
& ESS**



**Industrial Automation
& PLC**



**SMPS & Isolated
Power Supplies**



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Isolated Circuits**

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