

NEW! FJ3P02100L & FK3P02110L Series

Power CSP MOSFET's

With Panasonic's Advanced 110nm Fine Trench Cell Silicon Technology

Panasonic, a worldwide leader in Semiconductor Products, is pleased to announce the **NEW FJ3P02100L and FK3P02110L Series** of Power CSP MOSFET's. The **NEW POWER CSP MOSFET Series** features Power Mount CSP Packaging (PMCP) that is comprised of a unique pad design and drain clip technology. This allows for a 5% improvement in thermal dissipation while simultaneously reducing the size by 80% over the conventional solutions. Panasonic's advances in cell technology and wafer thinning fabrication have lead to silicon with a 110nm fine trench cell that provides 47% lower $R_{DS(on)}$ over the same sized conventional chip. By using this technology, this MOSFET Series achieves higher power efficiency while reducing power consumption.

Features:

- Power Mount CSP (PMCP) Package Allows For Improved Thermal Dissipation By 5% While Reducing The Size By 80% Over the Conventional Solutions
- Employing a Fine Trench Silicon Technology That Provides 47% lower $R_{DS(on)}$ Over The Same Sized Conventional Chip. By Using This Technology, this MOSFET Family Achieves Higher Power Efficiency While Reducing Power Consumption of the System
- Size: FJ3P02100L: 2.0 x 2.0 x 0.33mm
FK3P02110L: 1.8 x 1.6 x 0.33mm
- $R_{DS(on)}$: FJ3P02100L: 9.5m Ω @VGS=4.5V(typ.)
FK3P02110L: 12.5m Ω @VGS=2.5V(typ.)
- Lead-free Solder Bumps, Halogen Free, RoHS Qualified
- AEC-Q101 Qualified

Benefits:

- High Power Density and Better Efficiency Minimize Board Space While Increasing Efficiency and Thermal Dissipation
- Lower Power Consumption Industry Leading Low $R_{DS(on)}$ for Load Switch
- Dampen Excessive Ringing and Overshoot The Clip Structure Rather Than Wire-Bonds is More Effective to Reduce the Parasitic Inductance

Industries:

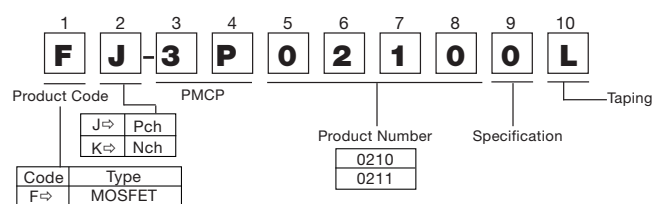
- Portable Application
- Medical
- Health Care
- Mobile
- Computing
- Consumer

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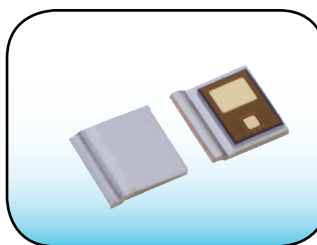
Applications:

- Portable Audio Player/ Gaming Device/ Hand Set/ IC Recorder
- Blood Glucose Monitor/ Hearing Aid
- IC Card
- Meter
- Adapter
- Smart Phone/ Tablet PC/ E-Book
- Sever/Router

Part Number Information:



Additional Information:



For detailed specification information on these Power CSP MOSFET Semiconductors, visit: panasonic.com/industrial/includes/zip/PCMP_MOSFET_DataSheet.zip today!

Website: panasonic.com/industrial/semiconductors