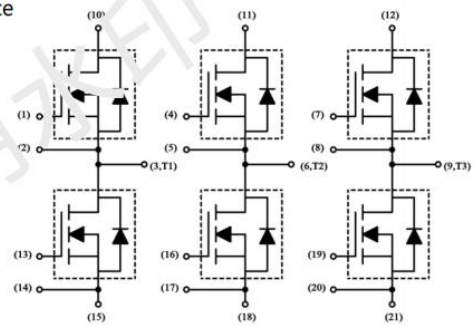
BNR03AA010CQ

General Description

BNR03AA010CQ is an ultra-compact three-phase power module that integrates six matched high-performance MOSFETs in three half-bridge configurations within a low-profile package. Its optimized internal layout achieves exceptionally low stray inductance, minimized loop area, and true double-sided cooling - delivering superior power density, reduced switching losses, and lower EMI compared to conventional discrete solutions.Ideal for compact motor drives, DC-link stages, and high-efficiency converters.

Features

- Ultra-thin profile for elevated power density
- Double-sided thermal paths for efficient cooling
- Three-phase topology with six integrated MOSFETs
- Low R_{DSON} and minimal stray inductance
- Standard SMT reflow compatibility
- Package size: 13.92*9.15*0.5mm



Applications

- BLDC motor drives
- Drone ESCs & gimbals
- High-current buck / multiphase VRMs
- Fast chargers and compact adapters

Parameters

P/N	B_{VDSS}	R_{DSON}	I_D (T_C=100°C)	T_{vjmax}
BNR03AA010CQ	100V	2.5mΩ	140A	150°C

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