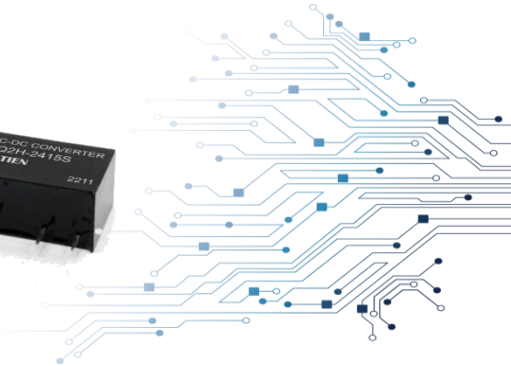


# NQ1H+NQ2H Series



## New 1W+2W Fixed Input with Reinforced Insulation!

MOTIEN TECHNOLOGY specializes in DC/DC Converters and is proud to present the new product – NQ1H+NQ2H Series

### Feature:

- ✓ 1W+ 2W Power rating / SIP 7
- ✓ Isolation Voltage up to 5000VAC
- ✓ Reinforced Insulation for 300Vrms Working Voltage
- ✓ Efficiency is up to 82% (NQ1H) & 86% (NQ2H)
- ✓ Continuous Short Circuit Protection
- ✓ Operating temperature: -40°C~+95 °C
- ✓ UL/cUL/IEC/EN 62368-1 Safety Approval

### Comparison with MOTIEN existing products :

|                                       | MOTIEN - NQ1H  | MOTIEN - NQ1H-X                                      | MOTIEN - VL  | MOTIEN - NQ2H  | MOTIEN - NQ2H-X                                      | MOTIEN - VL2 |
|---------------------------------------|--|--|--------------|--|--|--------------|
| Package                               | SIP7   |  |              | SIP7   |  |              |
| Pin Pitch                             | 2.54 mm  | 2.0 mm   | 2.54 mm      | 2.54 mm  | 2.0 mm   | 2.54 mm      |
| Pinout compatibility                  | Compatible   | incompatible   | Compatible   | Compatible   | incompatible   | Compatible   |
| Short Circuit Protection              | YES  |  |              | YES  |  |              |
| Capacitor Load                        | 68~2200μF  | 68~2200μF  | 100~220μF    | 330~3300μF   | 330~3300μF   | 100~1000μF   |
| Isolation Voltage                     | 5000 VAC   | 5000 VAC   | 6000 VDC     | 5000 VAC   | 5000 VAC   | 5200 VDC     |
| Case Temperature                      | +115°C, max.   | +115°C, max.   | +100°C, max. | 115 °C   | 115 °C   | 100 °C       |
| Operating Temperature (For Full Load) | -40 ~ +90°C  | -40 ~ +90°C  | -40 ~ +75°C  | -40~90 °C  | -40~90 °C  | -40~65 °C    |
| CMTI                                  | 65 KV/μS @ 1KV                                       | 65 KV/μS @ 1KV                                       | N/A          | 65 KV/μS @ 1KV                                       | 65 KV/μS @ 1KV                                       | N/A          |
| Creepage & Clearance                  | 6 mm, min  | 9 mm, min  | N/A          | 6 mm, min  | 9 mm, min  | N/A          |
| Safety                                | IEC 62368-1 Reinforced @ 300Vrms working voltage OV2 | IEC 62368-1 Reinforced @ 300Vrms working voltage OV3 | N/A          | IEC 62368-1 Reinforced @ 300Vrms working voltage OV2 | IEC 62368-1 Reinforced @ 300Vrms working voltage OV3 | N/A          |



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