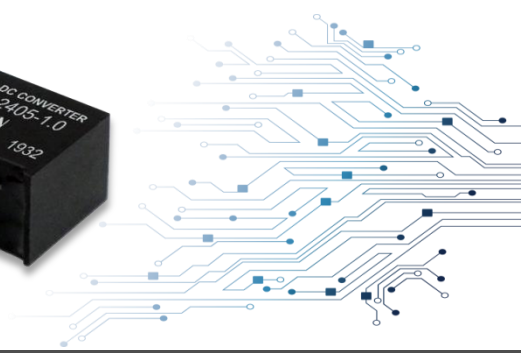


NR-1.0+NR-2.0 Series



The NEW RELEASE of Switching Regulator

MOTIEN TECHNOLOGY specializes in DC/DC Converters

and is proud to present the new product – **NR-1.0+2.0 Series**

Feature:

- ✓ 1A + 2A output current / SIP 3
- ✓ Non-isolated regulator with low standby current
- ✓ High voltage input range up to 36V
- ✓ Low ripple and noise / Continuous short circuit protection
- ✓ Efficiency is up to 96%
- ✓ Operating temperature: NR-2.0 -40°C ~ +85 °C / NR-1.0 -40°C ~ +100 °C

Comparison between NR-1.0 and NR-2.0:

	NR-1.0 series	NR-2.0 series
PIN Connections		
Package	SIP3	SIP3
Dimensions	11.68 x 7.70 x 10.16	14.0 x 7.50 x 10.1
Pinout compatibility	Compatible	Compatible
Input Voltage Range	4.6~36V	3~5.5V 4.6~36V
Start up time	5mS, typ.	5mS, typ.
Line Regulation	Output ≤ 2.5Vdc: ±0.5%, max. Output ≥ 3.3Vdc: ±0.3%, max. Output ≤ 2.5Vdc: ±0.8%, max. Output ≥ 3.3Vdc: ±0.6%, max. Output ≥ 9.0Vdc: ±0.5%, max. (From 10% to 100% Load)	±0.5%, max.
Load Regulation	Output ≤ 2.5Vdc: ±1.5%, max. Output ≥ 3.3Vdc: ±0.8%, max. Output ≥ 9.0Vdc: ±0.5%, max. (From 0% to 100% Load)	±1.0%, max. (From 10% to 100% Load) 05 Series For All Vo: ±1.0%, max. 24 Series For Vo ≤ 3.3Vdc: ±1.5%, max. For Vo ≥ 5Vdc: ±1.0%, max. (From 0% to 100% Load)
Ripple & Noise	Output ≤ 6.5Vdc: 50mVpk-pk, max. Output ≥ 9.0Vdc: 75mVpk-pk, max.	Output ≤ 6.5Vdc: 50mVpk-pk, max. Output ≥ 9.0Vdc: 75mVpk-pk, max.
Transient Recovery Time	250μs, typ. ±3%, max.	150μs, typ. ±3%, max.
Transient Response Deviation	(normal Vin and 25% ↔ 50% & 50% ↔ 75% load change)	(normal Vin and 25% ↔ 50% & 50% ↔ 75% load change)
Short Circuit Protection	YES	YES
Operating Temperature (For Full Load)	-40°C ~ +100°C (See Derating Curve)	-40°C ~ +85°C (See Derating Curve)

