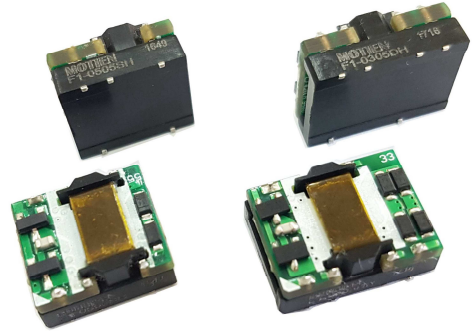


The **F1**rst Choice of SMD Power Module

Motien Technology is proud to present
the new 1W SMD DC/DC Converters - **F1 Series**



Feature:



- ✦ F1 Series is developed and designed with the new construction and new transformer technology that no workmanship of coil winding is required.
- ✦ EMC meets EN55032 Class B.
- ✦ F1 Series withstands an isolation voltage of 4200Vdc in SMD 8 PIN single output models and SMD 10 PIN dual output models.
- ✦ Rated working voltage for functional insulation is 250Vrms and 400Vdc.
- ✦ Extended -40°C till 105°C operating temperature range with full power output till 100°C.
- ✦ Vibration test result meets MIL-STD-810F.
- ✦ Moisture Sensitivity Level (MSL) Test Report is compliance with IPC/JEDEC J-STD-020D.1 Level 1 with peak 245°C / 10 SEC. Max. Qualified for Lead-free Reflow Soldering Process.
- ✦ F1 Series performs superior characteristics in operating temperature range, EMC, Mechanical strength which fits the requirements of various applications : Automation , device for IOT , Industries equipmentsetc.

Model List:

| MODEL NUMBER | INPUT Voltage Range (Vdc) | INPUT Current | | OUTPUT Voltage (Vdc) | OUTPUT Current Full load (mA) | EFFICIENCY @FL (%, typ.) | Capacitor Load @FL (μF, max.) |
|---------------|---------------------------------|-----------------------|-------------------------|----------------------------|-------------------------------------|--------------------------------|-------------------------------------|
| | | No-Load (mA, max.) | Full Load (mA, typ.) | | | | |
| F1-0303SH | 3.3 (2.97 ~ 3.63) | 50 | 421 | 3.3 | 303 | 72 | 220 |
| F1-0305SH | 3.3 (2.97 ~ 3.63) | 50 | 410 | 5 | 200 | 74 | 220 |
| F1-0503SH | 5 (4.5 ~ 5.5) | 40 | 278 | 3.3 | 303 | 72 | 220 |
| F1-0505SH | 5 (4.5 ~ 5.5) | 40 | 267 | 5 | 200 | 75 | 220 |
| * F1-0303SH-R | 3.3 (2.97 ~ 3.63) | 50 | 421 | 3.3 | 303 | 72 | 220 |
| * F1-0305SH-R | 3.3 (2.97 ~ 3.63) | 50 | 410 | 5 | 200 | 74 | 220 |
| * F1-0503SH-R | 5 (4.5 ~ 5.5) | 40 | 278 | 3.3 | 303 | 72 | 220 |
| * F1-0505SH-R | 5 (4.5 ~ 5.5) | 40 | 267 | 5 | 200 | 75 | 220 |
| F1-0303DH | 3.3 (2.97 ~ 3.63) | 50 | 404 | ±3.3 | ±151 | 75 | ±100 |
| F1-0305DH | 3.3 (2.97 ~ 3.63) | 50 | 394 | ±5 | ±100 | 77 | ±100 |
| F1-0503DH | 5 (4.5 ~ 5.5) | 40 | 267 | ±3.3 | ±151 | 75 | ±100 |
| F1-0505DH | 5 (4.5 ~ 5.5) | 40 | 260 | ±5 | ±100 | 77 | ±100 |
| * F1-0303DH-R | 3.3 (2.97 ~ 3.63) | 50 | 404 | ±3.3 | ±151 | 75 | ±100 |
| * F1-0305DH-R | 3.3 (2.97 ~ 3.63) | 50 | 394 | ±5 | ±100 | 77 | ±100 |
| * F1-0503DH-R | 5 (4.5 ~ 5.5) | 40 | 267 | ±3.3 | ±151 | 75 | ±100 |
| * F1-0505DH-R | 5 (4.5 ~ 5.5) | 40 | 260 | ±5 | ±100 | 77 | ±100 |

* "-R" Stands for packed with Tape & Reel.

Optional package with packing tube and tape / reel packing. (Multiple quantity available only.)

Packing tube (Single Output 40 pieces / Tube ; Dual Output 30 pieces / Tube)

Tape/reel packing (Single Output 500 pieces / Reel ; Dual Output 450 pieces / Reel)

For more details, please contact us: sales@motien.com.tw



MOTIEN TECHNOLOGY CO., LTD.

[Http://www.motien.com.tw](http://www.motien.com.tw) [Http://www.motien-power.asia](http://www.motien-power.asia)