

## Features:

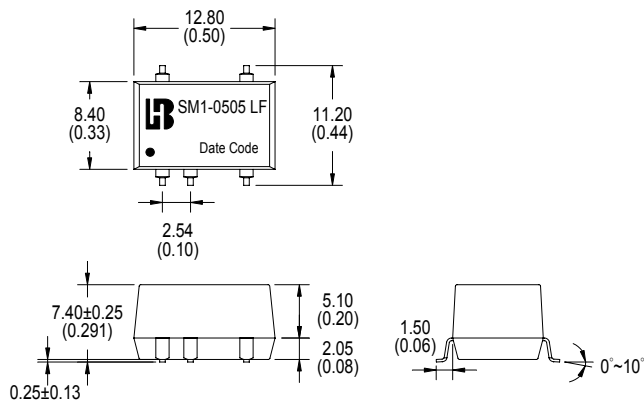
- Lead Frame & Injection Technology
- High Efficiency Up to 83%
- Input / Output Isolation 1K Vdc Or 3K Vdc(H)
- 100% Burn-In
- Un-Regulated type
- Net Weight : 1.6 g / 2.1 g Typical
- Custom Design Available

## Technical Specification(1/2):

| Model No.                      | Input Voltage (Vdc) | Output Voltage (Vdc) | Output Current (mA) Max | Input Current @No Load (mA) Typ. | Input Current @Max. Load (mA) Typ. | Output Ripple (mV) Max. | Load Regulation (%) Max. | Efficiency (%)Typ. |
|--------------------------------|---------------------|----------------------|-------------------------|----------------------------------|------------------------------------|-------------------------|--------------------------|--------------------|
| <b>1) Single Output Series</b> |                     |                      |                         |                                  |                                    |                         |                          |                    |
| SM1-053R3(H) LF                | 5                   | 3.3                  | 200                     | 22                               | 171                                | 60                      | ± 12                     | 77                 |
| SM1-0505(H) LF                 |                     | 5                    | 200                     | 25                               | 246                                | 60                      | ± 10                     | 81                 |
| SM1-0509(H) LF                 |                     | 9                    | 110                     | 23                               | 254                                | 80                      | ± 10                     | 78                 |
| SM1-0512(H) LF                 |                     | 12                   | 84                      | 25                               | 252                                | 100                     | ± 8                      | 80                 |
| SM1-0515(H) LF                 |                     | 15                   | 67                      | 28                               | 248                                | 120                     | ± 8                      | 81                 |
| SM1-123R3(H) LF                | 12                  | 3.3                  | 200                     | 12                               | 73                                 | 60                      | ± 12                     | 75                 |
| SM1-1205(H) LF                 |                     | 5                    | 200                     | 15                               | 100                                | 60                      | ± 8                      | 81                 |
| SM1-1209(H) LF                 |                     | 9                    | 110                     | 15                               | 105                                | 80                      | ± 8                      | 78                 |
| SM1-1212(H) LF                 |                     | 12                   | 84                      | 15                               | 103                                | 100                     | ± 6                      | 81                 |
| SM1-1215(H) LF                 |                     | 15                   | 67                      | 14                               | 100                                | 120                     | ± 6                      | 83                 |
| SM1-243R3(H) LF                | 24                  | 3.3                  | 200                     | 6                                | 44                                 | 60                      | ± 8                      | 67                 |
| SM1-2405(H) LF                 |                     | 5                    | 200                     | 7                                | 63                                 | 60                      | ± 5                      | 71                 |
| SM1-2409(H) LF                 |                     | 9                    | 110                     | 6                                | 60                                 | 80                      | ± 5                      | 73                 |
| SM1-2412(H) LF                 |                     | 12                   | 84                      | 8                                | 58                                 | 100                     | ± 5                      | 76                 |
| SM1-2415(H) LF                 |                     | 15                   | 67                      | 8                                | 58                                 | 120                     | ± 5                      | 77                 |

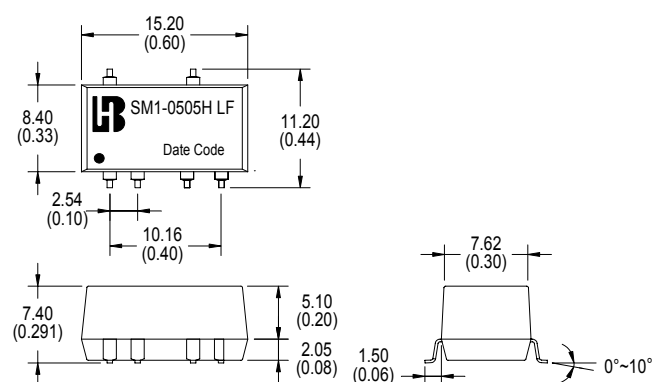
## Mechanical Dimensions (1/2):

### Single Output Series (For Isolation Voltage 1KVdc)



| Pin | 1KVdc - Single | Pin |
|-----|----------------|-----|
| 1   | -Vin           | 14  |
| 3   | +Vin           | 12  |
| 5   | No Pin         | 10  |
| 7   | -Vo            | 8   |

### Single Output Series (For Isolation Voltage 3KVdc)



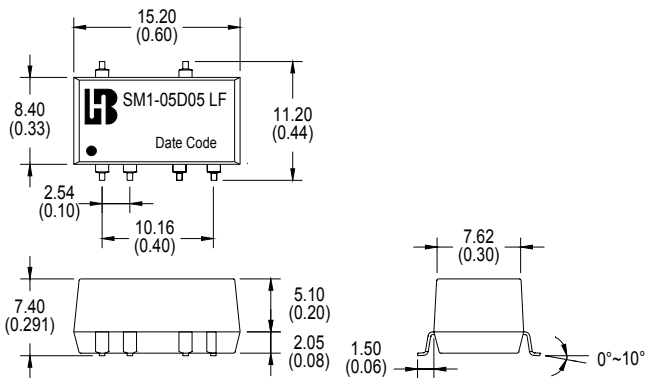
| Pin | 3KVdc - Single | Pin |
|-----|----------------|-----|
| 1   | -Vin           | 18  |
| 3   | +Vin           | 16  |
| 5   | No Pin         | 14  |
| 7   | -Vo            | 12  |
| 9   | NC             | 10  |

## Technical Specification (2/2):

| Model No.                    | Input Voltage (Vdc) | Output Voltage (Vdc) | Output Current (mA) Max | Input Current @No Load (mA) Typ. | Input Current @Max. Load (mA) Typ. | Output Ripple (mV) Max. | Load Regulation (%) Max. | Efficiency (%)Typ. |
|------------------------------|---------------------|----------------------|-------------------------|----------------------------------|------------------------------------|-------------------------|--------------------------|--------------------|
| <b>2) Dual Output Series</b> |                     |                      |                         |                                  |                                    |                         |                          |                    |
| SM1-05D05 LF                 | 5                   | ± 5                  | ± 100                   | 28                               | 281                                | 60                      | ± 12                     | 71                 |
| SM1-05D09 LF                 |                     | ± 9                  | ± 56                    | 24                               | 256                                | 80                      | ± 12                     | 78                 |
| SM1-05D12 LF                 |                     | ± 12                 | ± 42                    | 24                               | 258                                | 100                     | ± 10                     | 78                 |
| SM1-05D15 LF                 |                     | ± 15                 | ± 34                    | 26                               | 252                                | 120                     | ± 10                     | 81                 |
| SM1-12D05 LF                 | 12                  | ± 5                  | ± 100                   | 15                               | 114                                | 60                      | ± 12                     | 73                 |
| SM1-12D09 LF                 |                     | ± 9                  | ± 56                    | 15                               | 106                                | 80                      | ± 12                     | 79                 |
| SM1-12D12 LF                 |                     | ± 12                 | ± 42                    | 15                               | 103                                | 100                     | ± 10                     | 81                 |
| SM1-12D15 LF                 |                     | ± 15                 | ± 34                    | 15                               | 102                                | 120                     | ± 10                     | 83                 |
| SM1-24D3R3 LF                | 24                  | ± 3.3                | ± 100                   | 6                                | 45                                 | 60                      | ± 12                     | 66                 |
| SM1-24D05 LF                 |                     | ± 5                  | ± 100                   | 7                                | 58                                 | 60                      | ± 8                      | 76                 |
| SM1-24D09 LF                 |                     | ± 9                  | ± 56                    | 8                                | 57                                 | 80                      | ± 5                      | 78                 |
| SM1-24D12 LF                 |                     | ± 12                 | ± 42                    | 7                                | 56                                 | 100                     | ± 5                      | 80                 |
| SM1-24D15 LF                 |                     | ± 15                 | ± 34                    | 10                               | 60                                 | 120                     | ± 5                      | 75                 |

## Mechanical Dimensions (2/2):

### Dual Output Series (For Isolation Voltage 1KVdc)



| Pin | 1K Vdc - Dual |        | Pin |
|-----|---------------|--------|-----|
| 1   | -Vin          | NC     | 18  |
| 3   | +Vin          | No Pin | 16  |
| 5   | No Pin        |        | 14  |
| 7   | Common        | +Vo    | 12  |
| 9   | -Vo           | No Pin | 10  |