



Industrial



Test



Comm



Broadcast

85W, 12A Non-isolated SMT Point of Load



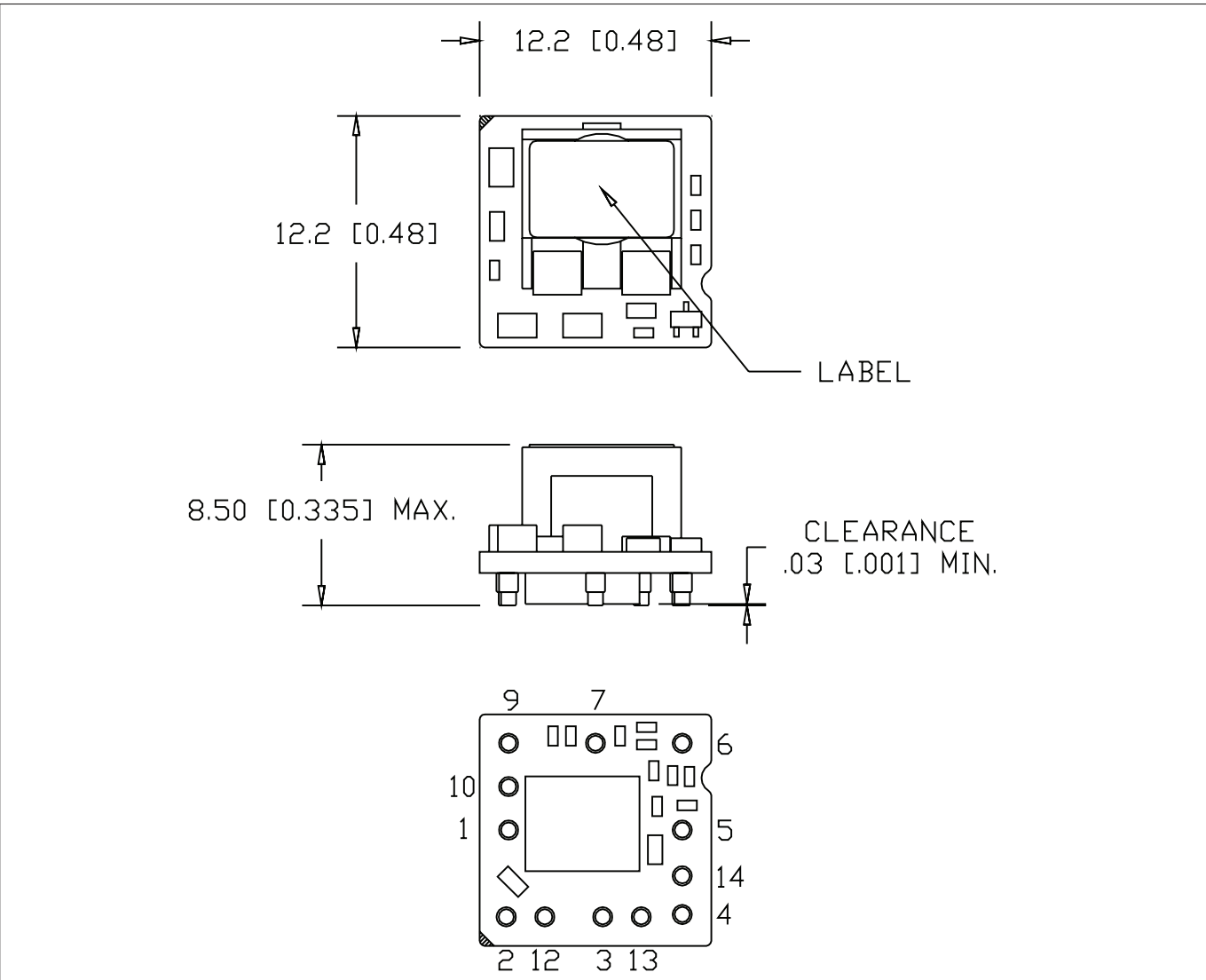
| Features | Benefits |
|---|------------------------------|
| • DOSA Compatible Footprint | • Ideal for Second Sourcing |
| • Constant Switching Frequency | • Predictable EMI |
| • No external Loop Tuning Components Needed | • Less Board Area Needed |
| • Excellent Transient response | • For Sensitive Applications |

| Specification | | |
|---------------------------|--------|---|
| Model | iCH | |
| DC Output Voltage | V | 0.7 - 8.5 |
| DC Input Voltage | V | 4.5 - 14 |
| Efficiency | % | 88.5 - 97 |
| Output Voltage Tolerance | % | ±3 |
| Switching Frequency | kHz | 500 |
| Line Regulation | mV | 5 |
| Load Regulation | mV | 6 |
| External Load Capacitance | uF | 200 - 2000 |
| Output Ripple and Noise | mVpp | 15 |
| Overcurrent Protection | A | 22A typical |
| Remote On / Off | - | Positive Logic (For Negative Logic Contact Factory) |
| Remote Sense | - | (+) Sense, compensating up to 0.5V |
| Power Good | - | Yes, Low on fail |
| Operating Temperature | °C | -40°C to 115°C (see thermal data on website) |
| Storage Temperature | °C | -55°C to 125°C |
| Safety Agency Approvals | - | IEC/EN 60950-1, UL/CSA 60950-1, CE mark (LVD & RoHS2) |
| Weight | g / oz | 2.5g / 0.088 oz |
| Size (LxWxH) | mm | 12.2 x 12.2 x 8.5 |
| Warranty | yrs | 3 |

| Model Selector | | | | | |
|---------------------|-------------------|--------------------|--------------------|-----------------------|-----------------------|
| Input Model | Input Voltage (V) | Output Current (A) | Output Voltage (V) | Positive Logic On/Off | Negative Logic On/Off |
| iCH12012A007V-007-R | 4.5 - 14 | 12 | 0.7 - 8.5 | - | yes |
| iCH12012A007V-006-R | 4.5 - 14 | 12 | 0.7 - 8.5 | yes | - |

Preferred

Outline Drawing iCH Series



| Pin Assignment | | | |
|----------------|-----------|-----|---------------|
| PIN | Function | PIN | Function |
| 1 | ON / OFF | 8 | Not Fitted |
| 2 | VIN | 9 | Not Connected |
| 3 | GND | 10 | PWR GOOD |
| 4 | VOUT | 11 | Not Fitted |
| 5 | SENSE (+) | 12 | VIN |
| 6 | TRIM | 13 | GND |
| 7 | GND | 14 | VOUT |



TDK-Lambda France SAS

ZAC des Delaches
CS 41077
9 rue Thuillere
91978 Villebon Courtaboeuf
France
Tel: +33 1 60 12 71 65
Fax: +33 1 60 12 71 66
france@fr.tdk-lambda.com
www.fr.tdk-lambda.com



Italy Sales Office

Via dei Lavoratori 128/130
20092 Cinisello Balsamo (MI)
Italy
Tel: +39 02 61 29 38 63
Fax: +39 02 61 29 09 00
info.italia@it.tdk-lambda.com
www.it.tdk-lambda.com



Netherlands

info@tdk-lambda.nl
www.tdk-lambda.nl



TDK-Lambda Germany GmbH

Karl-Bold-Strasse 40
77855 Achem
Germany
Tel: +49 7841 666 0
Fax: +49 7841 5000
info.germany@de.tdk-lambda.com
www.de.tdk-lambda.com



Austria Sales Office

Aredstrasse 22
2544 Leobersdorf
Austria
Tel: +43 2256 655 84
Fax: +43 2256 645 12
info.germany@de.tdk-lambda.com
www.de.tdk-lambda.com



Switzerland Sales Office

Bahnhofstrasse 50
8305 Dietlikon
Switzerland
Tel: +41 44 850 53 53
Fax: +41 44 850 53 50
info@de.tdk-lambda.com
www.de.tdk-lambda.com



TDK-Lambda UK Ltd.

Kingsley Avenue
Ilfracombe
Devon EX34 8ES
United Kingdom
Tel: +44 (0) 12 71 85 66 66
Fax: +44 (0) 12 71 86 48 94
powersolutions@uk.tdk-lambda.com
www.uk.tdk-lambda.com



TDK-Lambda Ltd.

Kibbutz
Givat Hashlosha 48800
Israel
Tel: +9 723 902 4333
Fax: +9 723 902 4777
info@tdk-lambda.co.il
www.tdk-lambda.co.il



C.I.S.

Commercial Support:

Tel: +7 (495) 665 2627

Technical Support:

Tel: +7 (812) 658 0463

info@tdk-lambda.ru

www.tdk-lambda.ru

Local Distribution

