



# DESIGN KIT

## Texas Instruments



### TECHNICAL DATA:

|               |                       |
|---------------|-----------------------|
| L:            | 0.82 ~ 1500 $\mu$ H   |
| $I_{R^*}$ :   | 0.52 ~ 27 A           |
| $I_{sat^*}$ : | 0.68 ~ 35 A           |
| $R_{DC}$ :    | 0.0009 ~ 2.3 $\Omega$ |

Order Code 744 728

Version 2.0



## 744 028 000 82

|                    |                    |
|--------------------|--------------------|
| L:                 | 0.82 $\mu\text{H}$ |
| $I_R$ :            | 2.00 A             |
| $I_{\text{sat}}$ : | 1.60 A             |
| $R_{DC}$ :         | 0.065 $\Omega$     |
| Size:              | 2811               |

## 744 028 002

|                    |                   |
|--------------------|-------------------|
| L:                 | 2.2 $\mu\text{H}$ |
| $I_R$ :            | 1.30 A            |
| $I_{\text{sat}}$ : | 1.00 A            |
| $R_{DC}$ :         | 0.155 $\Omega$    |
| Size:              | 2811              |

## 744 029 004

|                    |                   |
|--------------------|-------------------|
| L:                 | 4.7 $\mu\text{H}$ |
| $I_R$ :            | 1.00 A            |
| $I_{\text{sat}}$ : | 0.80 A            |
| $R_{DC}$ :         | 0.200 $\Omega$    |
| Size:              | 2813              |

## 744 031 004

|                    |                   |
|--------------------|-------------------|
| L:                 | 4.7 $\mu\text{H}$ |
| $I_R$ :            | 1.20 A            |
| $I_{\text{sat}}$ : | 0.90 A            |
| $R_{DC}$ :         | 0.105 $\Omega$    |
| Size:              | 3816              |

## 744 373 240 10

|                    |                   |
|--------------------|-------------------|
| L:                 | 1.0 $\mu\text{H}$ |
| $I_R$ :            | 5.00 A            |
| $I_{\text{sat}}$ : | 9.00 A            |
| $R_{DC}$ :         | 0.027 $\Omega$    |
| Size:              | 4020              |

## 744 373 240 22

|                    |                   |
|--------------------|-------------------|
| L:                 | 2.2 $\mu\text{H}$ |
| $I_R$ :            | 3.25 A            |
| $I_{\text{sat}}$ : | 6.50 A            |
| $R_{DC}$ :         | 0.061 $\Omega$    |
| Size:              | 4020              |

## 744 373 241 00

|                    |                  |
|--------------------|------------------|
| L:                 | 10 $\mu\text{H}$ |
| $I_R$ :            | 1.50 A           |
| $I_{\text{sat}}$ : | 2.40 A           |
| $R_{DC}$ :         | 0.243 $\Omega$   |
| Size:              | 4020             |

## 744 089 410 068

|                    |                    |
|--------------------|--------------------|
| L:                 | 0.68 $\mu\text{H}$ |
| $I_R$ :            | 3.40 A             |
| $I_{\text{sat}}$ : | 6.50 A             |
| $R_{DC}$ :         | 0.0221 $\Omega$    |
| Size:              | 4818               |

## 744 089 410 50

|                    |                    |
|--------------------|--------------------|
| L:                 | 5.00 $\mu\text{H}$ |
| $I_R$ :            | 1.40 A             |
| $I_{\text{sat}}$ : | 2.50 A             |
| $R_{DC}$ :         | 0.140 $\Omega$     |
| Size:              | 4818               |

## 744 043 002 2

|                    |                    |
|--------------------|--------------------|
| L:                 | 2.20 $\mu\text{H}$ |
| $I_R$ :            | 2.50 A             |
| $I_{\text{sat}}$ : | 2.35 A             |
| $R_{DC}$ :         | 0.028 $\Omega$     |
| Size:              | 4828               |

## 744 043 003

|                    |                    |
|--------------------|--------------------|
| L:                 | 3.30 $\mu\text{H}$ |
| $I_R$ :            | 2.15 A             |
| $I_{\text{sat}}$ : | 1.80 A             |
| $R_{DC}$ :         | 0.035 $\Omega$     |
| Size:              | 4828               |

## 744 089 431 00

|                    |                    |
|--------------------|--------------------|
| L:                 | 10.0 $\mu\text{H}$ |
| $I_R$ :            | 1.65 A             |
| $I_{\text{sat}}$ : | 2.10 A             |
| $R_{DC}$ :         | 0.094 $\Omega$     |
| Size:              | 4838               |

## 744 089 432 20

|                    |                    |
|--------------------|--------------------|
| L:                 | 22.0 $\mu\text{H}$ |
| $I_R$ :            | 1.10 A             |
| $I_{\text{sat}}$ : | 1.40 A             |
| $R_{DC}$ :         | 0.213 $\Omega$     |
| Size:              | 4838               |

## 744 089 431 01

|                    |                     |
|--------------------|---------------------|
| L:                 | 100.0 $\mu\text{H}$ |
| $I_R$ :            | 0.52 A              |
| $I_{\text{sat}}$ : | 0.68 A              |
| $R_{DC}$ :         | 0.850 $\Omega$      |
| Size:              | 4838                |

## 744 052 007

|                    |                   |
|--------------------|-------------------|
| L:                 | 7.5 $\mu\text{H}$ |
| $I_R$ :            | 1.35 A            |
| $I_{\text{sat}}$ : | 1.50 A            |
| $R_{DC}$ :         | 0.090 $\Omega$    |
| Size:              | 5818              |

## 744 052 100

|                    |                    |
|--------------------|--------------------|
| L:                 | 10.0 $\mu\text{H}$ |
| $I_R$ :            | 1.10 A             |
| $I_{\text{sat}}$ : | 1.25 A             |
| $R_{DC}$ :         | 0.130 $\Omega$     |
| Size:              | 5818               |

## 744 052 120

|                    |                    |
|--------------------|--------------------|
| L:                 | 12.0 $\mu\text{H}$ |
| $I_R$ :            | 1.00 A             |
| $I_{\text{sat}}$ : | 1.15 A             |
| $R_{DC}$ :         | 0.160 $\Omega$     |
| Size:              | 5818               |

## 744 052 150

|                    |                    |
|--------------------|--------------------|
| L:                 | 15.0 $\mu\text{H}$ |
| $I_R$ :            | 0.95 A             |
| $I_{\text{sat}}$ : | 1.10 A             |
| $R_{DC}$ :         | 0.190 $\Omega$     |
| Size:              | 5818               |

## 744 053 006

|                    |                   |
|--------------------|-------------------|
| L:                 | 6.2 $\mu\text{H}$ |
| $I_R$ :            | 2.20 A            |
| $I_{\text{sat}}$ : | 1.70 A            |
| $R_{DC}$ :         | 0.045 $\Omega$    |
| Size:              | 5828              |

## 744 778 500 1

|                    |                   |
|--------------------|-------------------|
| L:                 | 1.0 $\mu\text{H}$ |
| $I_R$ :            | 3.50 A            |
| $I_{\text{sat}}$ : | 4.50 A            |
| $R_{DC}$ :         | 0.039 $\Omega$    |
| Size:              | 6033              |

## 744 778 500 4

|                    |                   |
|--------------------|-------------------|
| L:                 | 4.7 $\mu\text{H}$ |
| $I_R$ :            | 2.65 A            |
| $I_{\text{sat}}$ : | 2.50 A            |
| $R_{DC}$ :         | 0.078 $\Omega$    |
| Size:              | 6033              |

## 744 778 900 3

|                    |                   |
|--------------------|-------------------|
| L:                 | 3.3 $\mu\text{H}$ |
| $I_R$ :            | 3.42 A            |
| $I_{\text{sat}}$ : | 4.20 A            |
| $R_{DC}$ :         | 0.030 $\Omega$    |
| Size:              | 7332              |

## 744 778 900 4

|                    |                   |
|--------------------|-------------------|
| L:                 | 4.7 $\mu\text{H}$ |
| $I_R$ :            | 2.90 A            |
| $I_{\text{sat}}$ : | 3.90 A            |
| $R_{DC}$ :         | 0.035 $\Omega$    |
| Size:              | 7332              |

## 744 778 900 6

|                    |                   |
|--------------------|-------------------|
| L:                 | 6.8 $\mu\text{H}$ |
| $I_R$ :            | 2.50 A            |
| $I_{\text{sat}}$ : | 2.75 A            |
| $R_{DC}$ :         | 0.044 $\Omega$    |
| Size:              | 7332              |

## 744 778 910

|                    |                    |
|--------------------|--------------------|
| L:                 | 10.0 $\mu\text{H}$ |
| $I_R$ :            | 1.83 A             |
| $I_{\text{sat}}$ : | 2.20 A             |
| $R_{DC}$ :         | 0.072 $\Omega$     |
| Size:              | 7332               |

## 744 778 911 2

|                    |                    |
|--------------------|--------------------|
| L:                 | 12.0 $\mu\text{H}$ |
| $I_R$ :            | 1.73 A             |
| $I_{\text{sat}}$ : | 1.90 A             |
| $R_{DC}$ :         | 0.098 $\Omega$     |
| Size:              | 7332               |

## 744 778 911 5

|                    |                    |
|--------------------|--------------------|
| L:                 | 15.0 $\mu\text{H}$ |
| $I_R$ :            | 1.51 A             |
| $I_{\text{sat}}$ : | 1.75 A             |
| $R_{DC}$ :         | 0.130 $\Omega$     |
| Size:              | 7332               |

## 744 777 900 6

|                    |                   |
|--------------------|-------------------|
| L:                 | 6.8 $\mu\text{H}$ |
| $I_R$ :            | 2.91 A            |
| $I_{\text{sat}}$ : | 3.30 A            |
| $R_{DC}$ :         | 0.035 $\Omega$    |
| Size:              | 7345              |

## 744 772 010

|                    |                   |
|--------------------|-------------------|
| L:                 | 1.0 $\mu\text{H}$ |
| $I_R$ :            | 7.50 A            |
| $I_{\text{sat}}$ : | 10.0 A            |
| $R_{DC}$ :         | 0.006 $\Omega$    |
| Size:              | L                 |

## 744 066 100

|                    |                    |
|--------------------|--------------------|
| L:                 | 10.0 $\mu\text{H}$ |
| $I_R$ :            | 3.60 A             |
| $I_{\text{sat}}$ : | 4.00 A             |
| $R_{DC}$ :         | 0.035 $\Omega$     |
| Size:              | 1038               |

## 744 770 122

|                    |                    |
|--------------------|--------------------|
| L:                 | 22.0 $\mu\text{H}$ |
| $I_R$ :            | 4.10 A             |
| $I_{\text{sat}}$ : | 5.00 A             |
| $R_{DC}$ :         | 0.043 $\Omega$     |
| Size:              | 1280               |

## 744 770 910 0

|                    |                    |
|--------------------|--------------------|
| L:                 | 10.0 $\mu\text{H}$ |
| $I_R$ :            | 7.10 A             |
| $I_{\text{sat}}$ : | 10.5 A             |
| $R_{DC}$ :         | 0.021 $\Omega$     |
| Size:              | 1210               |

## 744 770 915 2

|                    |                    |
|--------------------|--------------------|
| L:                 | 1500 $\mu\text{H}$ |
| $I_R$ :            | 0.90 A             |
| $I_{\text{sat}}$ : | 0.80 A             |
| $R_{DC}$ :         | 2.300 $\Omega$     |
| Size:              | 1210               |

## 744 355 182

|                    |                    |
|--------------------|--------------------|
| L:                 | 0.82 $\mu\text{H}$ |
| $I_R$ :            | 27.0 A             |
| $I_{\text{sat}}$ : | 35.0 A             |
| $R_{DC}$ :         | 0.0009 $\Omega$    |
| Size:              | 1365               |

## 744 355 120 0

|                    |                   |
|--------------------|-------------------|
| L:                 | 2.0 $\mu\text{H}$ |
| $I_R$ :            | 23.0 A            |
| $I_{\text{sat}}$ : | 22.0 A            |
| $R_{DC}$ :         | 0.0026 $\Omega$   |
| Size:              | 1365              |

EMC COMPONENTS | INDUCTORS | TRANSFORMERS | RF COMPONENTS | CIRCUIT PROTECTION | EMC SHIELDING MATERIAL | CONNECTORS | SWITCHES | ASSEMBLY TECHNIQUE | POWER ELEMENTS

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