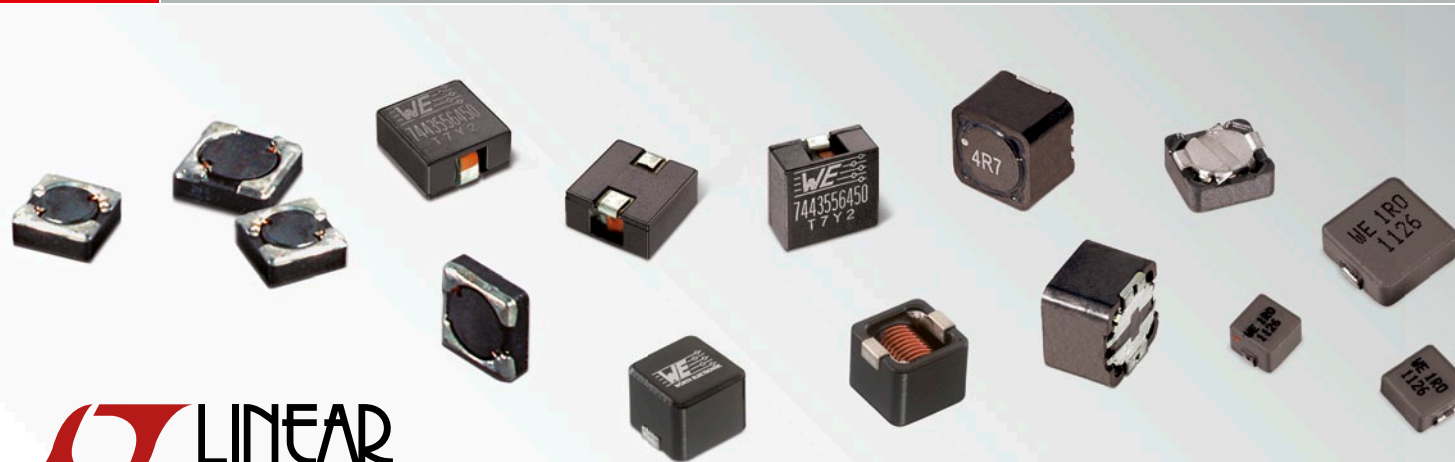




# DESIGN KIT

## Linear Technology



### SIZE:

2811 - 1365

### TECHNICAL DATA:

$L$ : 0.24 ~ 27  $\mu$ H  
 $I_R$ : 1.2 ~ 30 A  
 $I_{sat}$ : 0.9 ~ 50 A  
 $R_{DC}$ : 0.0007 ~ 0.243  $\Omega$

Order Code 744 720

Version 2.0



|                    |                 |
|--------------------|-----------------|
| <b>744 031 002</b> |                 |
| L:                 | 2.5 $\mu$ H     |
| I <sub>R</sub> :   | 1.45 A          |
| I <sub>sat</sub> : | 1.25 A          |
| R <sub>DC</sub> :  | 0.0580 $\Omega$ |
| Size:              | 3816            |

|                    |                 |
|--------------------|-----------------|
| <b>744 031 003</b> |                 |
| L:                 | 3.6 $\mu$ H     |
| I <sub>R</sub> :   | 1.38 A          |
| I <sub>sat</sub> : | 1.10 A          |
| R <sub>DC</sub> :  | 0.0850 $\Omega$ |
| Size:              | 3816            |

|                    |                 |
|--------------------|-----------------|
| <b>744 031 004</b> |                 |
| L:                 | 4.7 $\mu$ H     |
| I <sub>R</sub> :   | 1.20 A          |
| I <sub>sat</sub> : | 0.90 A          |
| R <sub>DC</sub> :  | 0.1050 $\Omega$ |
| Size:              | 3816            |

|                       |                 |
|-----------------------|-----------------|
| <b>744 373 240 33</b> |                 |
| L:                    | 3.3 $\mu$ H     |
| I <sub>R</sub> :      | 2.50 A          |
| I <sub>sat</sub> :    | 4.20 A          |
| R <sub>DC</sub> :     | 0.0760 $\Omega$ |
| Size:                 | 4020            |

|                       |                 |
|-----------------------|-----------------|
| <b>744 373 240 47</b> |                 |
| L:                    | 4.7 $\mu$ H     |
| I <sub>R</sub> :      | 2.20 A          |
| I <sub>sat</sub> :    | 4.00 A          |
| R <sub>DC</sub> :     | 0.1050 $\Omega$ |
| Size:                 | 4020            |

|                       |                 |
|-----------------------|-----------------|
| <b>744 373 241 00</b> |                 |
| L:                    | 10 $\mu$ H      |
| I <sub>R</sub> :      | 1.50 A          |
| I <sub>sat</sub> :    | 2.40 A          |
| R <sub>DC</sub> :     | 0.2430 $\Omega$ |
| Size:                 | 4020            |

|                      |                 |
|----------------------|-----------------|
| <b>744 042 001 8</b> |                 |
| L:                   | 1.8 $\mu$ H     |
| I <sub>R</sub> :     | 2.35 A          |
| I <sub>sat</sub> :   | 2.40 A          |
| R <sub>DC</sub> :    | 0.0580 $\Omega$ |
| Size:                | 4818            |

|                      |                 |
|----------------------|-----------------|
| <b>744 042 002 7</b> |                 |
| L:                   | 2.7 $\mu$ H     |
| I <sub>R</sub> :     | 2.03 A          |
| I <sub>sat</sub> :   | 2.20 A          |
| R <sub>DC</sub> :    | 0.0600 $\Omega$ |
| Size:                | 4818            |

|                    |                 |
|--------------------|-----------------|
| <b>744 042 003</b> |                 |
| L:                 | 3.3 $\mu$ H     |
| I <sub>R</sub> :   | 1.95 A          |
| I <sub>sat</sub> : | 1.80 A          |
| R <sub>DC</sub> :  | 0.0650 $\Omega$ |
| Size:              | 4818            |

|                    |                 |
|--------------------|-----------------|
| <b>744 042 004</b> |                 |
| L:                 | 4.7 $\mu$ H     |
| I <sub>R</sub> :   | 1.72 A          |
| I <sub>sat</sub> : | 1.65 A          |
| R <sub>DC</sub> :  | 0.0820 $\Omega$ |
| Size:              | 4828            |

|                    |                 |
|--------------------|-----------------|
| <b>744 042 005</b> |                 |
| L:                 | 5.6 $\mu$ H     |
| I <sub>R</sub> :   | 1.64 A          |
| I <sub>sat</sub> : | 1.35 A          |
| R <sub>DC</sub> :  | 0.0900 $\Omega$ |
| Size:              | 4818            |

|                    |                 |
|--------------------|-----------------|
| <b>744 042 008</b> |                 |
| L:                 | 8.2 $\mu$ H     |
| I <sub>R</sub> :   | 1.40 A          |
| I <sub>sat</sub> : | 1.10 A          |
| R <sub>DC</sub> :  | 0.1350 $\Omega$ |
| Size:              | 4818            |

|                    |                 |
|--------------------|-----------------|
| <b>744 042 100</b> |                 |
| L:                 | 10 $\mu$ H      |
| I <sub>R</sub> :   | 1.30 A          |
| I <sub>sat</sub> : | 1.00 A          |
| R <sub>DC</sub> :  | 0.1500 $\Omega$ |
| Size:              | 4818            |

|                      |                 |
|----------------------|-----------------|
| <b>744 043 002 2</b> |                 |
| L:                   | 2.2 $\mu$ H     |
| I <sub>R</sub> :     | 2.50 A          |
| I <sub>sat</sub> :   | 2.35 A          |
| R <sub>DC</sub> :    | 0.0280 $\Omega$ |
| Size:                | 4828            |

|                    |                 |
|--------------------|-----------------|
| <b>744 310 024</b> |                 |
| L:                 | 0.24 $\mu$ H    |
| I <sub>R</sub> :   | 18 A            |
| I <sub>sat</sub> : | 40 A            |
| R <sub>DC</sub> :  | 0.0018 $\Omega$ |
| Size:              | 7030            |

|                    |                 |
|--------------------|-----------------|
| <b>744 310 055</b> |                 |
| L:                 | 0.52 $\mu$ H    |
| I <sub>R</sub> :   | 14 A            |
| I <sub>sat</sub> : | 20 A            |
| R <sub>DC</sub> :  | 0.0037 $\Omega$ |
| Size:              | 7030            |

|                    |                 |
|--------------------|-----------------|
| <b>744 311 068</b> |                 |
| L:                 | 0.68 $\mu$ H    |
| I <sub>R</sub> :   | 17 A            |
| I <sub>sat</sub> : | 20 A            |
| R <sub>DC</sub> :  | 0.0031 $\Omega$ |
| Size:              | 7040            |

|                    |                 |
|--------------------|-----------------|
| <b>744 311 220</b> |                 |
| L:                 | 2.2 $\mu$ H     |
| I <sub>R</sub> :   | 9.00 A          |
| I <sub>sat</sub> : | 13 A            |
| R <sub>DC</sub> :  | 0.0114 $\Omega$ |
| Size:              | 7040            |

|                    |                 |
|--------------------|-----------------|
| <b>744 314 650</b> |                 |
| L:                 | 6.5 $\mu$ H     |
| I <sub>R</sub> :   | 6.00 A          |
| I <sub>sat</sub> : | 6.00 A          |
| R <sub>DC</sub> :  | 0.0215 $\Omega$ |
| Size:              | 7050            |

|                        |                 |
|------------------------|-----------------|
| <b>744 373 460 047</b> |                 |
| L:                     | 0.47 $\mu$ H    |
| I <sub>R</sub> :       | 11.5 A          |
| I <sub>sat</sub> :     | 31 A            |
| R <sub>DC</sub> :      | 0.0042 $\Omega$ |
| Size:                  | 7030            |

|                       |                 |
|-----------------------|-----------------|
| <b>744 373 460 33</b> |                 |
| L:                    | 3.3 $\mu$ H     |
| I <sub>R</sub> :      | 5.00 A          |
| I <sub>sat</sub> :    | 13.50 A         |
| R <sub>DC</sub> :     | 0.0300 $\Omega$ |
| Size:                 | 7030            |

|                       |                 |
|-----------------------|-----------------|
| <b>744 373 461 00</b> |                 |
| L:                    | 10 $\mu$ H      |
| I <sub>R</sub> :      | 3.00 A          |
| I <sub>sat</sub> :    | 7.30 A          |
| R <sub>DC</sub> :     | 0.0850 $\Omega$ |
| Size:                 | 7030            |

|                       |                 |
|-----------------------|-----------------|
| <b>744 373 462 20</b> |                 |
| L:                    | 22 $\mu$ H      |
| I <sub>R</sub> :      | 1.90 A          |
| I <sub>sat</sub> :    | 4.50 A          |
| R <sub>DC</sub> :     | 0.1900 $\Omega$ |
| Size:                 | 7030            |

|                    |                 |
|--------------------|-----------------|
| <b>744 778 005</b> |                 |
| L:                 | 0.47 $\mu$ H    |
| I <sub>R</sub> :   | 5.60 A          |
| I <sub>sat</sub> : | 9.00 A          |
| R <sub>DC</sub> :  | 0.0085 $\Omega$ |
| Size:              | 7332            |

|                    |                 |
|--------------------|-----------------|
| <b>744 778 001</b> |                 |
| L:                 | 1 $\mu$ H       |
| I <sub>R</sub> :   | 5.37 A          |
| I <sub>sat</sub> : | 6.40 A          |
| R <sub>DC</sub> :  | 0.0120 $\Omega$ |
| Size:              | 7332            |

|                    |                 |
|--------------------|-----------------|
| <b>744 778 002</b> |                 |
| L:                 | 2.2 $\mu$ H     |
| I <sub>R</sub> :   | 4.02 A          |
| I <sub>sat</sub> : | 4.80 A          |
| R <sub>DC</sub> :  | 0.0200 $\Omega$ |
| Size:              | 7332            |

|                    |                 |
|--------------------|-----------------|
| <b>744 778 004</b> |                 |
| L:                 | 4.7 $\mu$ H     |
| I <sub>R</sub> :   | 2.32 A          |
| I <sub>sat</sub> : | 4.20 A          |
| R <sub>DC</sub> :  | 0.0600 $\Omega$ |
| Size:              | 7332            |

|                      |                 |
|----------------------|-----------------|
| <b>744 778 911 2</b> |                 |
| L:                   | 12 $\mu$ H      |
| I <sub>R</sub> :     | 1.73 A          |
| I <sub>sat</sub> :   | 1.90 A          |
| R <sub>DC</sub> :    | 0.0980 $\Omega$ |
| Size:                | 7332            |

|                      |                 |
|----------------------|-----------------|
| <b>744 778 911 5</b> |                 |
| L:                   | 15 $\mu$ H      |
| I <sub>R</sub> :     | 1.51 A          |
| I <sub>sat</sub> :   | 1.75 A          |
| R <sub>DC</sub> :    | 0.1300 $\Omega$ |
| Size:                | 7332            |

|                    |                 |
|--------------------|-----------------|
| <b>744 778 118</b> |                 |
| L:                 | 18 $\mu$ H      |
| I <sub>R</sub> :   | 1.41 A          |
| I <sub>sat</sub> : | 1.70 A          |
| R <sub>DC</sub> :  | 0.1400 $\Omega$ |
| Size:              | 7332            |

|                      |                 |
|----------------------|-----------------|
| <b>744 778 912 7</b> |                 |
| L:                   | 27 $\mu$ H      |
| I <sub>R</sub> :     | 1.27 A          |
| I <sub>sat</sub> :   | 1.35 A          |
| R <sub>DC</sub> :    | 0.2100 $\Omega$ |
| Size:                | 7332            |

|                      |                 |
|----------------------|-----------------|
| <b>744 333 004 7</b> |                 |
| L:                   | 0.47 $\mu$ H    |
| I <sub>R</sub> :     | 20.5 A          |
| I <sub>sat</sub> :   | 47 A            |
| R <sub>DC</sub> :    | 0.0008 $\Omega$ |
| Size:                | 1090            |

|                    |                 |
|--------------------|-----------------|
| <b>744 355 147</b> |                 |
| L:                 | 0.47 $\mu$ H    |
| I <sub>R</sub> :   | 30 A            |
| I <sub>sat</sub> : | 50 A            |
| R <sub>DC</sub> :  | 0.0007 $\Omega$ |
| Size:              | 1365            |

|                      |                 |
|----------------------|-----------------|
| <b>744 355 137 0</b> |                 |
| L:                   | 3.7 $\mu$ H     |
| I <sub>R</sub> :     | 17 A            |
| I <sub>sat</sub> :   | 16 A            |
| R <sub>DC</sub> :    | 0.0049 $\Omega$ |
| Size:                | 1365            |

|                      |                 |
|----------------------|-----------------|
| <b>744 355 113 1</b> |                 |
| L:                   | 13 $\mu$ H      |
| I <sub>R</sub> :     | 10 A            |
| I <sub>sat</sub> :   | 9.00 A          |
| R <sub>DC</sub> :    | 0.0112 $\Omega$ |
| Size:                | 1365            |

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

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