## imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



| SW2014  ((                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                 |             | Revision level                                                                                                      |                                                                                                                                                                  |                                                                                                                                                                            |                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                        |                                                                                                                 |                                                                                |                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                 | Drawing     |                                                                                                                     | Part                                                                                                                                                             | t Revisi                                                                                                                                                                   | ion Record                                                                                                                     | Changed                                                                                                                                                                           | Date                                                                                                                                   | ie /                                                                                                            | Approved                                                                       | Date                                                                           |
|                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                 | 00.0        | Design Relea                                                                                                        | зе                                                                                                                                                               | SEE ECN#                                                                                                                                                                   | 013638                                                                                                                         | GRW                                                                                                                                                                               | 11/30/2                                                                                                                                | 2016                                                                                                            | KAC                                                                            | 11/30/2016                                                                     |
|                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ENGTH                                                                                                                                                                           |             |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                            |                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                        |                                                                                                                 |                                                                                |                                                                                |
|                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                 |             |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                            |                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                        |                                                                                                                 |                                                                                |                                                                                |
|                                                                                                                                                                                                            | SEC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                 |             | Conde                                                                                                               | l Size                                                                                                                                                           |                                                                                                                                                                            |                                                                                                                                | Outside<br>Dimension<br>(OD)                                                                                                                                                      | n Dime                                                                                                                                 | side<br>ension<br>ID)                                                                                           | Minimum                                                                        | n Bend Radius                                                                  |
|                                                                                                                                                                                                            | SEC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TION A-A                                                                                                                                                                        |             | Nomina                                                                                                              | l Size<br>H                                                                                                                                                      | HellermannTyton                                                                                                                                                            | 1 1                                                                                                                            | Dimension<br>(OD)                                                                                                                                                                 | n Dime<br>(II                                                                                                                          | ension<br>ID)                                                                                                   |                                                                                |                                                                                |
| NOTES:                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                 |             | Nominal<br>inches                                                                                                   | I Size<br>H                                                                                                                                                      | ltem Number                                                                                                                                                                | Reference                                                                                                                      | Dimension<br>(OD)<br>in mm                                                                                                                                                        | n Dime<br>(II<br>n in                                                                                                                  | ension<br>ID)<br>mm                                                                                             | in                                                                             | mm                                                                             |
| NOTES:<br>1.FLAMMABILITY SELF-EXT<br>2. OPERATING TEMPERAT                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                 |             | Nominal<br>inches<br>1/2                                                                                            | I Size     H       mm     1       20.0     L                                                                                                                     | Item Number<br>LTBRDP20B-25M                                                                                                                                               | Reference                                                                                                                      | Dimension<br>(OD)<br>in mm<br>0.83 21.1                                                                                                                                           | Dime<br>(II<br>in<br>1 0.63                                                                                                            | mm<br>16.0                                                                                                      | in<br>2.56                                                                     | mm<br>65.0                                                                     |
| NOTES:<br>1.FLAMMABILITY SELF-EXT<br>2. OPERATING TEMPERAT<br>3. ROHS                                                                                                                                      | finguishing (En6138<br>fure -4° f to +221° f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 861)<br>(-20° C TO +105° C)                                                                                                                                                     |             | Nominal<br>inches<br>1/2<br>3/4                                                                                     | I Size     H       mm     1       20.0     L       25.0     L                                                                                                    | Item Number<br>LTBRDP20B-25M<br>LTBRDP25B-25M                                                                                                                              | ReferenceLTBRDP20BLTBRDP25B                                                                                                    | Dimension       in     mm       0.83     21.1       1.04     26.4                                                                                                                 | Dime<br>(II<br>1 0.63<br>4 0.83                                                                                                        | ension<br>D)<br>mm<br>16.0<br>21.0                                                                              | in<br>2.56<br>3.94                                                             | mm<br>65.0<br>100.0                                                            |
| NOTES:<br>1.FLAMMABILITY SELF-EXT<br>2. OPERATING TEMPERAT                                                                                                                                                 | finguishing (En6138<br>fure -4° f to +221° f<br>d Ltp or Ltpul Series d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 861)<br>(-20° C TO +105° C)                                                                                                                                                     |             | Nominal<br>inches<br>1/2<br>3/4<br>1                                                                                | I Size<br>mm<br>20.0 L<br>25.0 L<br>32.0 L                                                                                                                       | Item Number<br>LTBRDP20B-25M                                                                                                                                               | Reference<br>LTBRDP20B<br>LTBRDP25B<br>LTBRDP32B                                                                               | Dimession<br>(OD)       in     mm       0.83     21.1       1.04     26.4       1.30     33.1                                                                                     | Dime<br>(II       in       in       0.63       4       0.83       1                                                                    | ension<br>D)<br>mm<br>16.0<br>21.0<br>26.5                                                                      | in<br>2.56<br>3.94<br>4.72                                                     | mm<br>65.0                                                                     |
| NOTES:<br>1.FLAMMABILITY SELF-EXT<br>2. OPERATING TEMPERAT<br>3. ROHS<br>4. USE WITH HELAGUARD<br>FOR IP66 + IP67 + IP68<br>5. MANUFACTURED TO U                                                           | finguishing (En6138<br>fure -4° f to +221° f<br>) Ltp or Ltpul series<br>) + IP69 ratings<br>il360 requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 861)<br>(-20° C TO +105° C)<br>METALLIC FITTINGS                                                                                                                                |             | Nominal       inches       1/2       3/4       1       1-14                                                         | Size     H       mm     20.0     L       25.0     L     32.0     L       40.0     L     L     1                                                                  | Item Number<br>LTBRDP20B-25M<br>LTBRDP25B-25M<br>LTBRDP32B-25M                                                                                                             | ReferenceLTBRDP20BLTBRDP25BLTBRDP32BLTBRDP40B                                                                                  | Dimession       in     mm       0.83     21.1       1.04     26.4       1.30     33.1       1.65     41.6                                                                         | Dime       in       0.63       4       0.83       1       1.04       8                                                                 | mm 16.0 21.0 26.5 35.4 2                                                                                        | in<br>2.56<br>3.94<br>4.72<br>5.51                                             | mm<br>65.0<br>100.0<br>120.0<br>140.0                                          |
| NOTES:<br>1.FLAMMABILITY SELF-EXT<br>2. OPERATING TEMPERAT<br>3. ROHS<br>4. USE WITH HELAGUARD<br>FOR IP66 + IP67 + IP68                                                                                   | finguishing (En6138<br>fure -4° f to +221° f<br>) Ltp or Ltpul series<br>) + IP69 ratings<br>il360 requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 861)<br>(-20° C TO +105° C)<br>METALLIC FITTINGS                                                                                                                                |             | Nominal       inches       1/2       3/4       1       1-14       1-1/2                                             | Size     H       mm     1       20.0     L       25.0     L       32.0     L       40.0     L       50.0     L                                                   | Item Number<br>LTBRDP20B-25M<br>LTBRDP25B-25M<br>LTBRDP32B-25M<br>LTBRDP40B-10M<br>LTBRDP50B-10M                                                                           | ReferenceLTBRDP20BLTBRDP25BLTBRDP32BLTBRDP40B                                                                                  | Dimession<br>(OS)       in     mm       0.83     21.1       1.04     26.4       1.30     33.1       1.65     41.8       1.89     47.5                                             | Dime       in       0.63       4       0.83       1       1.04       8       1.39       9                                              | mm 16.0 21.0 26.5 35.4 40.4 10                                                                                  | in<br>2.56<br>3.94<br>4.72<br>5.51<br>7.09                                     | mm<br>65.0<br>100.0<br>120.0<br>140.0<br>180.0                                 |
| NOTES:<br>1.FLAMMABILITY SELF-EXT<br>2. OPERATING TEMPERAT<br>3. ROHS<br>4. USE WITH HELAGUARD<br>FOR IP66 + IP67 + IP68<br>5. MANUFACTURED TO U                                                           | finguishing (En6138<br>fure -4° f to +221° f<br>) Ltp or Ltpul series<br>) + IP69 ratings<br>il360 requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 361)<br>(-20° C TO +105° C)<br>METALLIC FITTINGS<br>ABLE LENGTHS                                                                                                                | Drawn       | Nominal       inches       1/2       3/4       1       1-14       1-1/2       2                                     | Size     H       mm     1       20.0     L       25.0     L       32.0     L       40.0     L       50.0     L                                                   | Item Number<br>LTBRDP20B-25M<br>LTBRDP25B-25M<br>LTBRDP32B-25M<br>LTBRDP40B-10M<br>LTBRDP50B-10M                                                                           | ReferenceLTBRDP20BLTBRDP25BLTBRDP32BLTBRDP40BLTBRDP50BLTBRDP63B                                                                | Dimession       in     mm       0.83     21.1       1.04     26.2       1.30     33.1       1.65     41.8       1.89     47.5       2.35     59.7                                 | Dime       in       0.63       4       0.83       1       1.04       8       1.39       9                                              | mm 16.0 21.0 26.5 35.4 2                                                                                        | in<br>2.56<br>3.94<br>4.72<br>5.51                                             | mm<br>65.0<br>100.0<br>120.0<br>140.0                                          |
| NOTES:<br>1.FLAMMABILITY SELF-EXT<br>2. OPERATING TEMPERAT<br>3. ROHS<br>4. USE WITH HELAGUARD<br>FOR IP66 + IP67 + IP68<br>5. MANUFACTURED TO U<br>6. CONSULT FACTORY O<br>Material<br>GALVANIZED STEEL & | TINGUISHING (EN6138<br>TURE -4° F TO +221° F<br>LTP OR LTPUL SERIES<br>+ IP69 RATINGS<br>IL360 REQUIREMENTS<br>R WEBSITE FOR AVAIL<br>Units: inches<br>Dimension without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 361)<br>(-20° C TO +105° C)<br>METALLIC FITTINGS<br>ABLE LENGTHS                                                                                                                | GR          | Nominal       inches       1/2       3/4       1       1-14       1-1/2       2       W       11/30                 | I Size     H       mm     20.0     L       25.0     L     32.0     L       32.0     L     50.0     L       50.0     L     1000000000000000000000000000000000000  | Item Number<br>LTBRDP20B-25M<br>LTBRDP25B-25M<br>LTBRDP32B-25M<br>LTBRDP40B-10M<br>LTBRDP50B-10M<br>LTBRDP63B-10M                                                          | ReferenceLTBRDP20BLTBRDP25BLTBRDP32BLTBRDP40BLTBRDP50BLTBRDP63BO                                                               | Dimession<br>(OB)       in     mm       0.83     21.1       1.04     26.4       1.30     33.2       1.65     41.8       1.89     47.9       2.35     59.7       SERIES     59.7   | Dime<br>(II       in       1       0.63       4       0.83       1       1.04       8       1.39       9       1.59       7       2.03 | mm<br>16.0<br>21.0<br>26.5<br>35.4<br>40.4<br>51.6                                                              | in<br>2.56<br>3.94<br>4.72<br>5.51<br>7.09<br>10.63<br>Scale                   | mm<br>65.0<br>100.0<br>120.0<br>140.0<br>180.0                                 |
| NOTES:<br>1.FLAMMABILITY SELF-EXT<br>2. OPERATING TEMPERAT<br>3. ROHS<br>4. USE WITH HELAGUARD<br>FOR IP66 + IP67 + IP68<br>5. MANUFACTURED TO U<br>6. CONSULT FACTORY O<br>Material                       | TINGUISHING (EN6138<br>TURE -4° F TO +221° F<br>TURE -4° F TURE -4° F<br>TURE -4° F TURE -4° F<br>TURE -4° F<br>TURE -4° F TURE -4° F<br>TURE - | 361)<br>(-20° C TO +105° C)<br>METALLIC FITTINGS<br>ABLE LENGTHS<br>The copyright of this<br>drawing is reserved by<br>HellermannTyton. It is<br>issued on condition that it is | Approved KA | Nominal       inches       1/2       3/4       1       1-14       1-1/2       2       W     11/30       C     11/30 | I Size     H       mm     12       20.0     12       25.0     12       32.0     12       40.0     12       50.0     12       63.0     12       0/2016     0/2016 | Item Number<br>LTBRDP20B-25M<br>LTBRDP25B-25M<br>LTBRDP32B-25M<br>LTBRDP40B-10M<br>LTBRDP50B-10M<br>LTBRDP63B-10M<br>Article/Type-No<br>Title                              | Reference<br>LTBRDP20B<br>LTBRDP25B<br>LTBRDP32B<br>LTBRDP40B<br>LTBRDP50B<br>LTBRDP63B<br>° LTBRDP S<br>AGUARD F<br>DUIT, OVE | Dimession<br>(OD)       in     mm       0.83     21.1       1.04     26.4       1.30     33.3       1.65     41.8       1.89     47.9       2.35     59.7       SERIES     SERIES | Dime<br>(II<br>0.63<br>4 0.63<br>4 0.83<br>1 1.04<br>8 1.39<br>9 1.59<br>7 2.03<br>7 2.03                                              | Image: sension Image: sension   mm 16.0   21.0 26.5   35.4 40.4   51.6                                          | in<br>2.56<br>3.94<br>4.72<br>5.51<br>7.09<br>10.63<br>Scale<br>Project<br>PRP | mm<br>65.0<br>100.0<br>120.0<br>140.0<br>180.0<br>270.0<br>Number<br>P 16-1965 |
| NOTES:<br>1.FLAMMABILITY SELF-EXT<br>2. OPERATING TEMPERAT<br>3. ROHS<br>4. USE WITH HELAGUARD<br>FOR IP66 + IP67 + IP68<br>5. MANUFACTURED TO U<br>6. CONSULT FACTORY O<br>Material<br>GALVANIZED STEEL & | TINGUISHING (EN6138<br>TURE -4° F TO +221° F<br>b LTP OR LTPUL SERIES<br>+ IP69 RATINGS<br>UL360 REQUIREMENTS<br>R WEBSITE FOR AVAIL<br>Units: inches<br>Dimension without<br>tolerances details to:<br>.xxx = $\pm$ .0005<br>.xxx = $\pm$ .005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 361)<br>(-20° C TO +105° C)<br>METALLIC FITTINGS<br>ABLE LENGTHS<br>The copyright of this<br>drawing is reserved by<br>HellermannTyton. It is                                   | Approved KA | Nominal       inches       1/2       3/4       1       1-14       1-1/2       2       W     11/30       C     11/30 | Size     H       mm     20.0     L'       25.0     L'       32.0     L'       32.0     L'       50.0     L'       63.0     L'       0/2016     0/2016            | Item Number<br>LTBRDP20B-25M<br>LTBRDP25B-25M<br>LTBRDP32B-25M<br>LTBRDP40B-10M<br>LTBRDP50B-10M<br>LTBRDP63B-10M<br>Article/Type-No<br>Title<br>HEL/<br>CON<br>Drawing-No | Reference<br>LTBRDP20B<br>LTBRDP25B<br>LTBRDP32B<br>LTBRDP40B<br>LTBRDP50B<br>LTBRDP63B<br>° LTBRDP S<br>AGUARD F<br>DUIT, OVE | Dimersion<br>(OD)       in     mm       0.83     21.1       1.04     26.2       1.30     33.1       1.65     41.8       1.89     47.5       2.35     59.7       SERIES     SERIES | Dime<br>(II<br>0 in<br>1 0.63<br>4 0.83<br>1 1.04<br>8 1.39<br>9 1.59<br>7 2.03<br>7 2.03<br><b>EMETA</b><br>ED CEN                    | ension     mm       16.0     21.0       26.5     35.4       40.4     51.6       ALLIC     NTER       ON : Phase | in<br>2.56<br>3.94<br>4.72<br>5.51<br>7.09<br>10.63<br>Scale<br>Project<br>PRP | mm<br>65.0<br>100.0<br>120.0<br>140.0<br>180.0<br>270.0<br>Number<br>P 16-1965 |