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| <h2>Inductors (Coils)</h2> <h3>Inductor Coils</h3> <p>Part Number : <b>MLG1608B12NJT000</b></p> <p>Product Name : <b>Multilayer Inductor for Ultra High Frequency Range</b></p> <p>TDK Series Name : <b>MLG Series</b></p> <p>Application : <b>No Data Available.</b></p> <p>Function : <b>No Data Available.</b></p> <p>Description : <b>No Data Available.</b></p> <p><a href="#">Submit Sample Request</a></p> <p><a href="#">Check Distributor Inventory</a></p> <p><a href="#">Print Page</a></p> <p><a href="#">Download Adobe PDF Viewer</a></p>  | <p><b>MLG1608 TYPE<br/>APPEARANCE PHOTOGRAPH</b></p>  <p>&lt; Prev   No PDF Available  Next &gt;</p> |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
|--|---|---------------|----------------------|-------------------------|-------------------|-------------------------|---------------------------|----------------|------------|---------------|------------|-------------------|------------------------|----------|------------|-----------------|-------------------|----------------|-------------------|-----------------|-------------------------------|------------|--------------------------|--------------------------|-----------------------------------|-------------------------|--------------------|---|---------------|----------------|--------------------|-------------------------|------------------|-----------------|---------------------|-----------------|---------------------|---------------|------------------|-------------------|----------------------------|------------------|------------|--------------------|-----------|------------------|-------------------------------|------------------------|--------------------------------------|----------------------------|--|---------------------------|--|-------------------|------------|---------|---|---------------------|---------------------|-------------------|---------------------|--------|--------------------|
| <h3>Additional Search Tools:</h3> <p> <a href="#">Application</a> <a href="#">Catalog</a> <a href="#">SEAT</a> <a href="#">CCV</a> <a href="#">TVCL</a> <a href="#">Tech Notes</a> </p>  |   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
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| Property Name  | Property Description  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Product Lifecycle Stage  | <b>Production</b>   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Part Number Replacement  | <i>No Data Available.</i>   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Lead (Pb) Free   | <b>Yes</b>  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Surface Mount  | <b>Yes</b>  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Construction Type  | <b>multilayer type</b>  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Mounting   | <b>SMD</b>  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Body Length (L)  | Nom <b>1.6</b> mm   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Body Width (W)   | Nom <b>0.8</b> mm   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Body Height (T)  | Max <i>No Data Available.</i>   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Inductance   | Nom <b>0.012</b> $\mu$ H  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Inductance Tolerance (%)   | Min <b>-5</b> %<br>Max <b>5</b> %   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Frequency of Inductance  | Nom <b>100</b> MHz  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Q  | Min <b>12</b>   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Frequency of Q   | Nom <b>100</b> MHz  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Self Resonant Frequency  | Min <b>3</b> GHz  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| D.C. Resistance  | Nom <b>0.13</b> Ohm   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| D.C. Resistance  | Max <b>0.25</b> Ohm   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Rated Current  | Max <b>0.6</b> A  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Terminal Material  | <b>Ag(100%)/Sn plating</b>  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Polarity Marking   | <b>Yes</b>  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Magnetic Shielding   | <b>No</b>   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Soldering Method   | <b>Reflow, Iron Soldering</b>   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Measuring Equipment(Q)   | <b>HP4291A+16193A, or equivalent</b>  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Category Temperature Range   | Min <b>-55</b> Cel<br>Max <b>125</b> Cel  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Storage Temperature Range  | Min <b>-55</b> Cel<br>Max <b>125</b> Cel  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Country of Origin  | <b>JPN</b>  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Packing  | <b>Punched (Paper)Taping [180mm Reel]</b>   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Minimum Package Qty  | Nom <b>4000</b> Pcs   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Minimum Order Qty  | Nom <b>4000</b> Pcs   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| Weight   | Nom <b>0.004</b> g  |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |
| <p>Disclaimer: This information is to be used for reference purposes only and is subject to change by TDK without notice. It reflects an overview of the product characteristics/performance for the particular part number. For product specification information, please refer to TDK's general product specification. Please note that this standard part is not designed or warranted to meet any specifications of any</p>  |   |               |                      |                         |                   |                         |                           |                |            |               |            |                   |                        |          |            |                 |                   |                |                   |                 |                               |            |                          |                          |                                   |                         |                    |   |               |                |                    |                         |                  |                 |                     |                 |                     |               |                  |                   |                            |                  |            |                    |           |                  |                               |                        |                                      |                            |  |                           |  |                   |            |         |   |                     |                     |                   |                     |        |                    |

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