


| PCN Number: | 20230614003.0 | | PCN Date: | June 15, 2023 | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------|--------------|------------------|---------------|--|------|---|---|---|---|---|---|--|---|--|----|---|----|---|----|--|----|--|----|--|----|
| Title: | Datasheet for TMS3705 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Customer Contact: | Change Management team | Dept: | Quality Services | | | | | | | | | | | | | | | | | | | | | | | |
| Change Type: | Electrical Specification | | | | | | | | | | | | | | | | | | | | | | | | | |
| PCN Details | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description of Change: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.</p> <div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: right;"> TMS3705 <small>SCBS881F – JANUARY 2010 – REVISED JUNE 2023</small> </div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Changes from November 1, 2018 to June 12, 2023</th> <th style="text-align: right;">Page</th> </tr> </thead> <tbody> <tr> <td>• Updated the numbering format for tables, figures, and cross references throughout the document.....</td> <td style="text-align: right;">1</td> </tr> <tr> <td>• Updated the paragraph that begins "The base station IC has an on-chip PLL..." in Section 3, Description</td> <td style="text-align: right;">1</td> </tr> <tr> <td>• Added TMS3705FDRQ1 and TMS3705GDRQ1 to Description and the <i>Device Information</i> table.....</td> <td style="text-align: right;">1</td> </tr> <tr> <td>• Corrected typo in description of test condition of parameters GBW and ϕ_O</td> <td style="text-align: right;">7</td> </tr> <tr> <td>• Removed crystal from Detailed Description of Oscillator.....</td> <td style="text-align: right;">11</td> </tr> <tr> <td>• Corrected typo of phase shift to 180° in Detailed Description of Predriver.....</td> <td style="text-align: right;">11</td> </tr> <tr> <td>• Added TMS3705FDRQ1 in note (F) on Figure 9-1, Operational State Diagram for the Control Logic</td> <td style="text-align: right;">13</td> </tr> <tr> <td>• Changed the note "Setting not allowed for..." on Table 9-1, Mode Control Register (7-Bit Register)</td> <td style="text-align: right;">13</td> </tr> <tr> <td>• Updated the paragraph that starts "The TMS3705EDRQ1..." in Section 9.13, Control Logic</td> <td style="text-align: right;">13</td> </tr> <tr> <td>• Corrected typo of value C1 to 3.3 nF in Table 10-1 Bill of Materials (BOM)</td> <td style="text-align: right;">16</td> </tr> </tbody> </table> | | | | | Changes from November 1, 2018 to June 12, 2023 | Page | • Updated the numbering format for tables, figures, and cross references throughout the document..... | 1 | • Updated the paragraph that begins "The base station IC has an on-chip PLL..." in Section 3, Description | 1 | • Added TMS3705FDRQ1 and TMS3705GDRQ1 to Description and the <i>Device Information</i> table..... | 1 | • Corrected typo in description of test condition of parameters GBW and ϕ_O | 7 | • Removed crystal from Detailed Description of Oscillator..... | 11 | • Corrected typo of phase shift to 180° in Detailed Description of Predriver..... | 11 | • Added TMS3705FDRQ1 in note (F) on Figure 9-1, Operational State Diagram for the Control Logic | 13 | • Changed the note "Setting not allowed for..." on Table 9-1, Mode Control Register (7-Bit Register) | 13 | • Updated the paragraph that starts "The TMS3705EDRQ1..." in Section 9.13, Control Logic | 13 | • Corrected typo of value C1 to 3.3 nF in Table 10-1 Bill of Materials (BOM) | 16 |
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| The datasheet number will be changing. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Device Family | Change From: | Change To: | | | | | | | | | | | | | | | | | | | | | | | | |
| TMS3705 | SCBS881E | SCBS881F | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>These changes may be reviewed at the datasheet links provided. http://www.ti.com/product/TMS3705</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Reason for Change: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| To accurately reflect device characteristics. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative): | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No anticipated impact. This is a specification change announcement only. There are no changes to the actual device | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Changes to product identification resulting from this PCN: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product Affected: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TMS3705DDRQ1 | TMS3705EDRQ1 | TMS3705FDRQ1 | TMS3705GDRQ1 | | | | | | | | | | | | | | | | | | | | | | | |

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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