**Buck Converter Design Equations**

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| Eq. # | Equation |
| (1) |  |
| (2) |  |
| (3) |  |
| (4) |  |
| (5) |  |
| (6) | ( is limited by OR |
| (7) | Where: |
| (8) |  |
| (9) |  |
| (10) |  |
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| (14) |  |
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| (17) |  |
| (18) |  |
| (19) | (In A |
| (20) |  |
| (21) |  |
| (22) |  |
| (23) | Where:  Results given in |
| (24) |  |
| (25) |  |
| (26) |  |
| (27) |  |
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| (46) |  |
| (47) |  |
| (48) |  |
| (49) |  |
| (50) |  |
| (51) | Where: |
| (52) | Where: is gain in dB |
| (53) |  |