

Table 6: Transmitter Characteristics(Vcc = 2.7 ~ 3.6 V, T_A = -25 ~ 85 °C, unless otherwise noticed. Typical values are at Vcc = 3.0V and T_A = 25°C).

| SYMBOL | PARAMETERS | CONDITIONS | MIN | TYP | MAX | UNIT |
|-------------------------|--|--|------|------|------|------|
| R _{audio_in} | Audio input impedance | At pin ALI and ARI | 10 | | 80 | kΩ |
| C _{audio_in} | Audio input capacitance ¹ | At pin ALI and ARI | | 2 | 5 | pF |
| G _{audio_In} | Audio input gain | RIN[1:0] = 01 | -1.5 | | 15 | dB |
| ΔG _{audio_In} | Audio gain step | For any gain setting | 0.5 | 1 | 1.5 | dB |
| τ _{emph} | Pre-emphasis time constant ¹ | PETC = 1 | 71.3 | 75 | 78.7 | μs |
| | | PETC = 0 | 47.5 | 50 | 52.5 | |
| SNR _{audio_tx} | Tx audio SNR ³ | MONO, Δf = 22.5 kHz | | 73 | | dB |
| | | STEREO, Δf = 67.5 kHz, Δf _{pilot} = 6.75 kHz | | 66 | | |
| THD _{audio_tx} | Tx audio THD ³ | STEREO, Δf = 67.5 kHz, Δf _{pilot} = 6.75 kHz | | 0.03 | 0.1 | % |
| α _{LR_tx} | L/R separation ^{2, 3} | | 45 | 50 | | dB |
| B _{LR_tx} | L/R channel imbalance ^{1, 2} | L and R channel gain imbalance at 1 kHz offset from DC | | | 1 | dB |
| M _{pilot} | 19 kHz pilot modulation ^{2, 3, 6} | Relative to 75 kHz deviation | 7 | 9.0 | 15 | % |
| SUP _{sub} | 38 kHz sub-carrier ^{2, 3} suppression | | 40 | | | dB |
| C _{tune} | Output capacitance tuning range | | 5 | | 30 | pF |
| P _{out} | RF output voltage swing ⁴ | RF Channel frequency = 88 MHz | 82 | | 124 | dBμV |
| ΔG _{RF_Out} | Power gain step | Over process, temperature | | 1.5 | | dB |
| ΔP _{out} | Power gain flatness | Over 76 MHz ~ 108 MHz | -2 | | 2 | dB |
| P _{mask} | RF output spectrum mask ⁵ | 120 kHz to 240 kHz offset | | -50 | -45 | dBc |
| | | 240 kHz to 600 kHz offset | | -55 | -50 | |
| | | >600 kHz offset | | | -45 | |
| F _{rf} | RF channel frequency | | 76 | | 108 | MHz |
| F _{ch} | Channel frequency step | | 50 | 100 | 200 | kHz |
| F _{err} | Channel center frequency accuracy | | -2 | | 2 | kHz |

[illegible]