

Thiele/Small Parameters

45L7R152

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|---------|----------|-----------------|--|
| Re | 4.06 | Ohm | electrical voice coil resistance at DC |
| Krm | 0.01385 | Ohm | WRIGHT inductance model |
| Erm | 0.885 | | WRIGHT inductance model |
| Kxm | 0.10115 | Ohm | WRIGHT inductance model |
| Exm | 0.7 | | WRIGHT inductance model |
| Cmes | 988.955 | µF | electrical capacitance representing moving mass |
| Lces | 39.86 | mH | electrical inductance representing driver compliance |
| Res | 53.67 | Ohm | resistance due to mechanical losses |
| fs | 25.35 | Hz | driver resonance frequency |
| Mms | 429.855 | g | mechanical mass of driver diaphragm assembly including air load and voice coil |
| Mmd | 391.6805 | g | mechanical mass of voice coil and diaphragm without air load |
| Rms | 8.103 | kg/s | mechanical resistance of total-driver losses |
| Cms | 0.0915 | mm/N | mechanical compliance of driver suspension |
| Kms | 10.905 | N/mm | mechanical stiffness of driver suspension |
| Bl | 20.848 | Tm | force factor (Bl product) |
| Lambda | 0.0765 | | suspension creep factor |
| Qtp | 0.7585 | | total Q-factor considering all losses |
| Qms | 8.4535 | | mechanical Q-factor of driver in free air considering Rms only |
| Qes | 0.64 | | electrical Q-factor of driver in free air considering Re only |
| Qts | 0.5945 | | total Q-factor considering Re and Rms only |
| Vas | 141.7355 | l | equivalent air volume of suspension |
| n0 | 0.3475 | | reference efficiency (2 pi-radiation using Re) |
| Lm | 87.605 | dB | characteristic sound pressure level (SPL at 1m for 1W @ Re) |
| Lnom | 87.54 | dB | nominal sensitivity (SPL at 1m for 1W @ Zn) |
| rmse Z | 2.305 | | root-mean-square fitting error of driver impedance Z(f) |
| rmse Hx | 1.58 | | root-mean-square fitting error of transfer function Hx (f) |
| Sd | 1045.03 | cm ² | diaphragm area |
| Xmax | 16.4 | mm | |