

# Specification Sheet

Model # 50FN08-1



## MISCO®

### Key Features:

- 2" (50mm), 8 ohm
- Full Range, 5 watts
- Neodymium magnet, Paper cone with pre-treated black cloth surround
- RoHS Compliant;

## Product Specifications & Parameters

### Primary Specifications

|                      |        |
|----------------------|--------|
| Speakers Environment | Indoor |
| RoHS Compliant       | Yes    |

### Technical Specifications

|  |             | Units of Measure |
|--|-------------|------------------|
| Nominal Basket Diameter                        | 2.0         | inch             |
|  | 50.0        | mm               |
| Rated Impedance                                | 8           | ohms             |
| Rated Power                                    | 5.0         | Watts            |
| Program Power                                  | 10          | Watts            |
| Frequency Range                                | 190 - 20000 | Hz               |
| Sensitivity (2.83 V input measured at 1 Meter) | 85          | dB SPL           |
| Voice Coil Diameter                            | 0.6 / 15.2  | inch / mm        |
| Magnet Weight                                  | 0.4 / 10    | oz / gr          |
| Transformer                                    |             |                  |

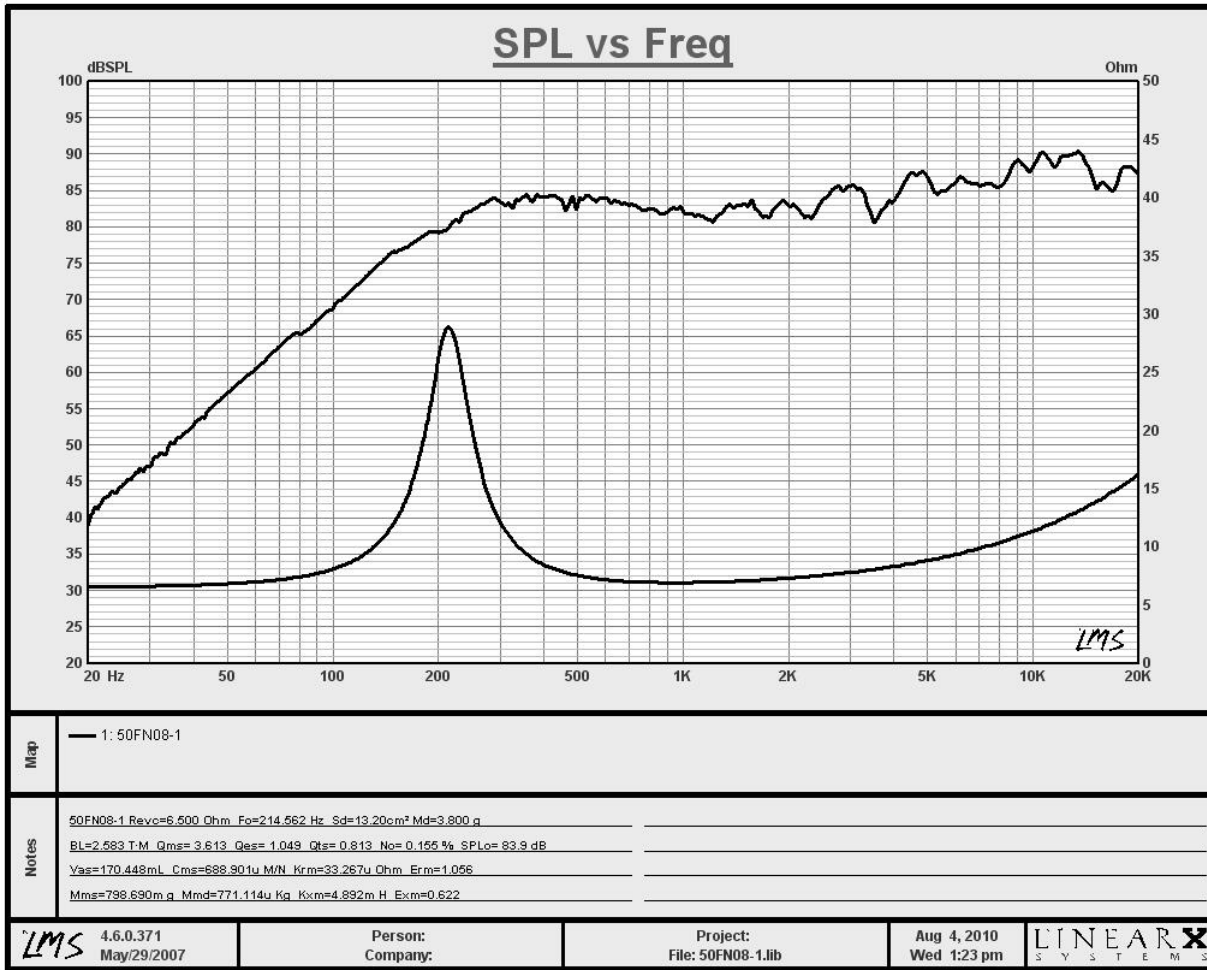
### Small Signal Parameters

|                                    |      | Units of Measure |
|------------------------------------|------|------------------|
| Resonant Frequency (fo)            | 190  | Hz               |
| D.C. Resistance (Re)               | 7.5  | ohms             |
| Mechanical Q (Qms)                 | 3.2  |                  |
| Electrical Q (Qes)                 | 0.93 |                  |
| Total Q (Qts)                      | 0.72 |                  |
| Compliance Equivalent Volume (Vas) | 0.2  | ltr              |
| BL Product (BL)                    | 2.6  | T-M              |
| Maximum Linear Excursion (Xmax)    | 0.9  | mm               |
| Surface Area of Cone (Sd)          | 13.0 | cm <sup>2</sup>  |
| Moving Mass (Mmd)                  |      | g                |

### Material Descriptions

|                 |                         |
|-----------------|-------------------------|
| Basket          | Stamped Steel           |
| Terminal Size   | 0.110 X .02             |
| Magnet          | Neodymium               |
| Voice Coil Wire | Copper                  |
| Voice Coil Form | Paper                   |
| Cone            | Paper                   |
| Cone Edge       | Pre-treated Black Cloth |
| Dust Cap        | Paper                   |

# Sensitivity / Frequency



# Drawing

| ID | Description       | Measurements | Tolerance  |
|----|-------------------|--------------|------------|
| Od | Outside Diameter  | 2.1 in.      | +/- 0.020" |
| CD | Cutout Diameter   | 1.9 in.      | +/- 0.020" |
| MG | Magnet Diameter   | 0.9 in.      | +/- 0.050" |
| HD | Hole Diameter     | 0.16 in.     | +/- 0.010" |
| MD | Mounting Diameter | 2.0 in.      | +/- 0.010" |
| ID | Internal Depth    | 0.9 in.      | +/- 0.025" |
| FT | Flange Thickness  | 0.1 in.      | +/- 0.050" |
| NW | Net Weight        | 50.0 g       |            |

