

This 4.5" extended range Red Line speaker fits high-power sound into a compact and lightweight driver. The 93077 provides quality sound thanks to its coaxially mounted PEI tweeter, and works best in shallow enclosures in motorcycles, ATV's, or any application where weight and space are key design factors.

- Extended range and voice speaker
- 4.5" (114 mm) steel pin cushion basket
- 35 watt, 4 ohm, 87 dB SPL
- 1" copper voice coil, Kapton former
- 1" PEI dome tweeter, coaxially mounted
- Ferrite magnet, polypropylene cone

MISCO engineers test and analyze the performance of these speakers using the world's most sophisticated loudspeaker measurement systems including the Klippel Analyzer and the Klippel QC, which confirm the final design.



#### Primary Specifications

<b>Size, Nominal (inch &amp; mm)</b>	4" (100 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	4
<b>Sensitivity (dB SPL) <sup>1</sup></b>	87
<b>Frequency Range (Hz)</b>	100 - 20,000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	145

### More Specifications

<b>RoHS Compliant</b>	Yes
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	3.8
<b>Program Power (W)</b>	70

### Small Signal Parameters

<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	4
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	3.8
<b>Voice Coil Inductance (Le) (mH)</b>	0.19
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	145
<b>Mechanical Q Factor (Qms)</b>	5.30
<b>Electrical Q Factor (Qes)</b>	2.16
<b>Total Q Factor (Qts)</b>	1.53

### Material Descriptions

<b>Basket Type</b>	Stamped steel
<b>Terminal Size (mm)</b>	6.4 x 0.8 / 4.7 x 0.5
<b>Voice Coil Diameter (mm)</b>	25.908
<b>Voice Coil Wire Material</b>	High temperature copper
<b>Voice Coil Former Material</b>	Kapton
<b>Magnet Material</b>	Ferrite
<b>Magnet Weight (g)</b>	136.08
<b>Cone Body Material</b>	Polypropylene, carbon filled
<b>Spider Material</b>	Cotton
<b>Net Weight (kg)</b>	0.51

