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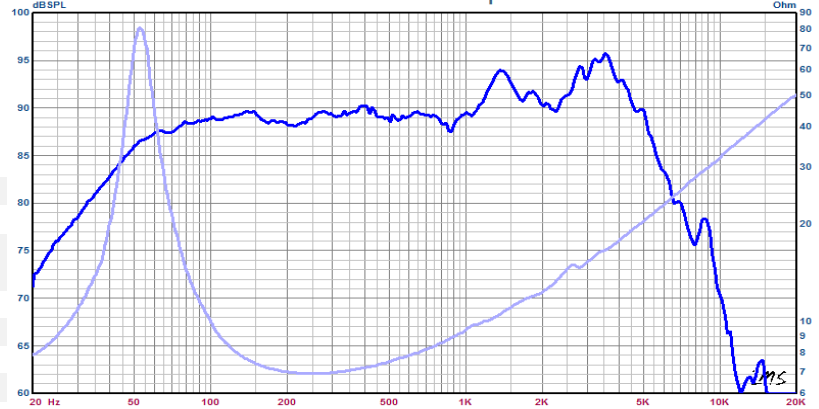
# MS-10W

Replacement woofer for Yamaha NS-10

Application	Woofer
Environment	Indoor
RoHS	Yes

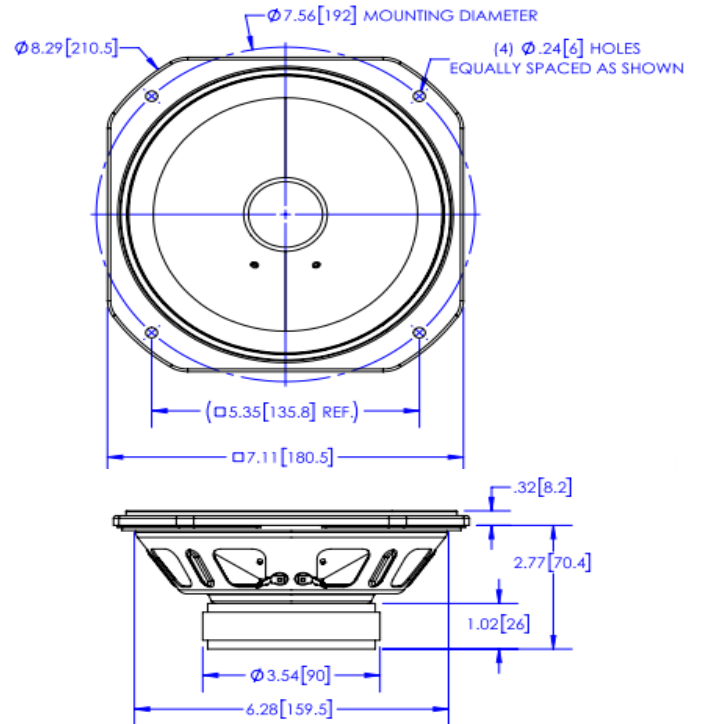


SPL vs Freq



## Transducer Specifications (Klippel LPM)

Nominal Impedance	Z	8 ohms
DC Resistance	Re	6.3 ohms
Resonant Frequency	Fs	53.6 Hz
Voice Coil Inductance	Le	0.64 mH
Mechanical Q factor	Qms	10.25
Electrical Q factor	Qes	0.60
Total Q factor	Qts	0.57
Moving Mass	Mms	12.81 grams
without air load	Mmd	10.34 grams
Suspension Compliance	Cms	0.694 mm/N
Mechanical Resistance	Rms	0.421 kg/s
Effective Piston Area	Sd	168.6 cm <sup>2</sup>
Suspension Equivalent Volume	Vas	27.92 liters
Theoretical	Xmax	3.85 mm
Coil	Height	12.7 mm
Gap	Height	5 mm
Force Factor	Bl	6.74 T*m
Efficiency	No	0.68 %
	SPL	91.6 db - 1W/Z
	SPL	90.5 db - 1W/Re
EBP	Fs/Qes	89
Motive Force	Bl <sup>2</sup> /Re	7.18
Power Handling	IEC268-5	30 W



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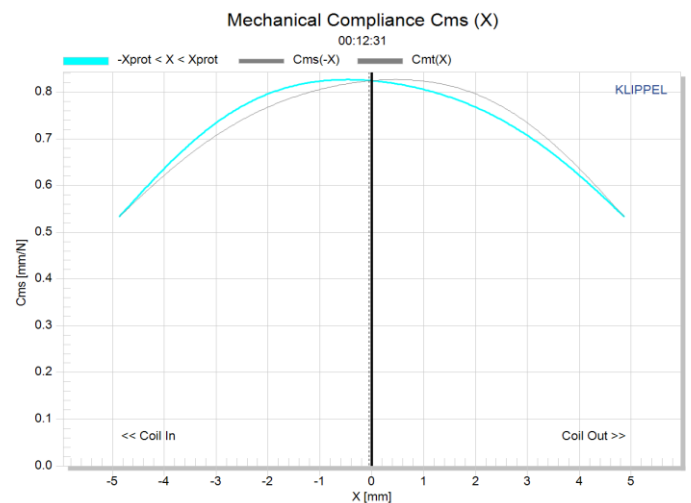
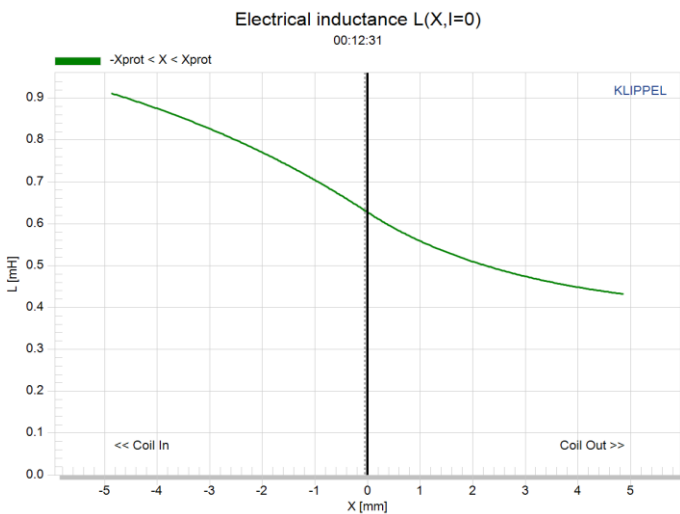
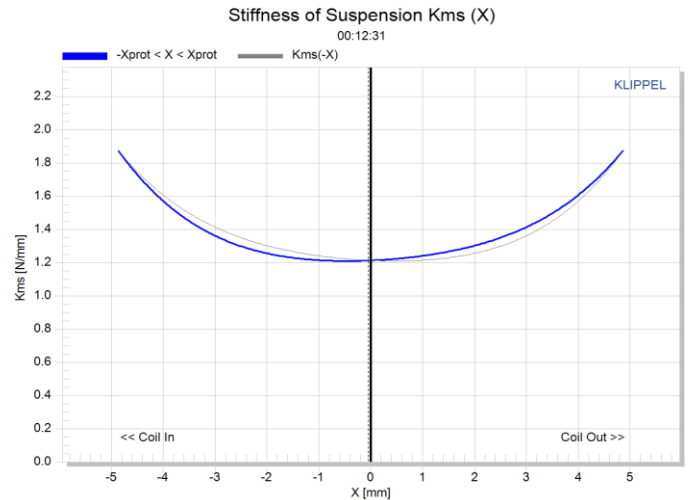
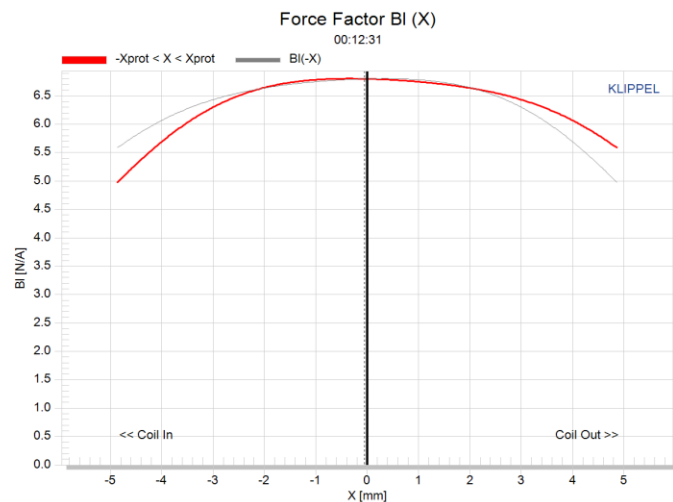
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# MS-10W

## Transducer Specifications

parameters via Klippel LSI Large Signal Cold

DC Resistance	Re	6.4 ohms	<i>non-linear parameters</i>	
Voice Coil Inductance	Le	0.62 mH	Type	
Resonant Frequency	Fs	47 Hz	$X_{Bl} @ Bl_{min}=82\%$	4.13 mm Due to force factor variation
Mechanical Q factor	Qms	5.40	$X_C @ C_{min}=75\%$	3.85 mm Due to compliance variation
Electrical Q factor	Qes	0.53	$X_L @ Z_{max}=10\%$	2.66 mm Due to inductance variation
Total Q factor	Qts	0.49		
Moving Mass	Mms	12.86 grams		
Suspension Compliance	Cms	0.915 mm/N		
Mechanical Resistance	Rms	0.698 kg/s		
Effective Piston Area	Sd	168.6 cm <sup>2</sup>		
Suspension Equivalent Volume	Vas	36.56 liters		
Maximum Linear Excursion	Xmax	4.06 mm (Klippel LSI non-linear @ Bl 82%)		
Force Factor	Bl	6.75 T*m		
Efficiency	No	0.67 %		
Sensitivity	SPL	90.4 db - 1W/1M		



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