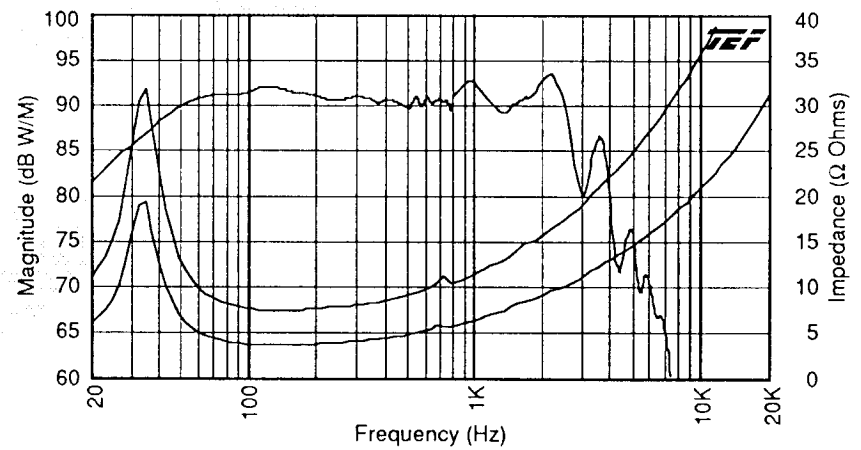
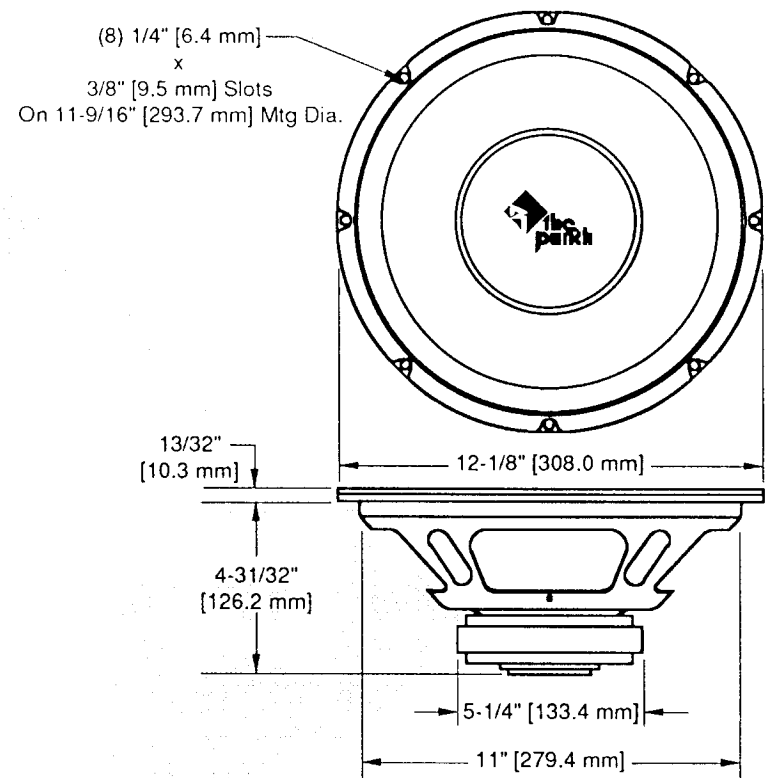


TECHNICAL DATA	SP-412	SP-812
Nominal Diameter	12.00 in [304.8 mm]	12.00 in [304.8 mm]
Magnet Weight	38.00 oz [1079.2 g]	38.00 oz [1079.2 g]
Frequency Range	32 - 4,000 Hz	34 - 4,000 Hz
Nominal Impedance	4Ω	8Ω
DC Resistance ( <i>RE</i> )	3.3Ω	6.7Ω
Resonance Frequency ( <i>fs</i> )	32 Hz	34 Hz
Mechanical Q Factor ( <i>QMS</i> )	3.38	2.90
Electrical Q Factor ( <i>QES</i> )	0.70	0.84
Total Q Factor ( <i>QTS</i> )	0.58	0.65
Effective Cone Area ( <i>Sd</i> )	84.48 in <sup>2</sup> [0.0545 m <sup>2</sup> ]	84.48 in <sup>2</sup> [0.0545 m <sup>2</sup> ]
Equivalent Air Volume ( <i>VAS</i> )	5.156 ft <sup>3</sup> [146.0 L]	5.156 ft <sup>3</sup> [146.0 L]
Compliance ( <i>CMS</i> )	0.00035 m/N	0.00035 m/N
Moving Mass ( <i>MMS</i> )	2.52 oz [71.4 g]	2.27 oz [64.4 g]
Voice Coil Diameter	2.00 in [50.8 mm]	2.00 in [50.8 mm]
Voice Coil Winding Height	0.69 in [17.5 mm]	0.69 in [17.5 mm]
Voice Coil Former Material	5 Mil Aluminum	5 Mil Aluminum
Voice Coil Inductance	0.65 mH	1.02 mH
Force Factor ( <i>Bl</i> )	8.3 Tm	10.4 Tm
Linear Excursion ( <i>Xmax</i> )	0.24 in [6.1 mm]	0.24 in [6.1 mm]
Sensitivity ( <i>SPL</i> )	90 dB W/m	90 dB W/m
Operating Power ( <i>PE</i> )	100 W	100 W
Specifications May Vary Per Manufacturing Tolerances And Are Subject To Improvement Without Notice Frequency Response Curve Shown Represents Both 4Ω And 8Ω Units Upper Impedance Curve For 8Ω Unit; Lower Impedance Curve For 4Ω Unit		



PART NO.:	SP-412	PART NAME: 12" Punch Woofer	
	SP-812	TOLERANCE: N/A	SCALE: N.T.S.
RELEASE: #2 (10-29-90)	DRWN BY: <i>BSW</i>	APPR BY: <i>Chuel</i>	

