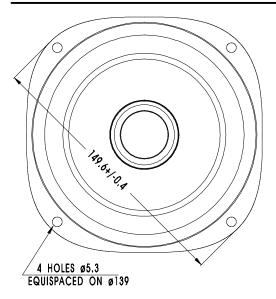


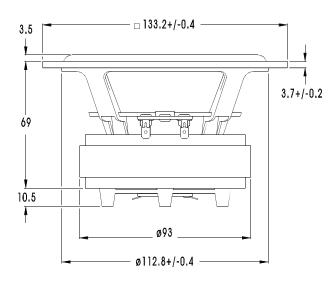
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OF NORWAY

COAXIAL

MP14RE/XF



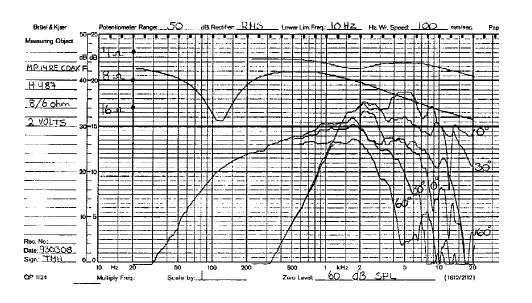


This loudspeaker is a coaxial and time coherent arrangement of a cone midrange unit and a precoated fabric dome high frequency unit. The cone of the midrange unit acts as a horn loading for the tweeter, and the chassis of the dome unit represents the throat of this horn. Unlike most traditional coaxial loudspeakers, this arrangement has two advantages: The two drive units have identical acoustic centers, and their directivities in the crossover frequency region are practically identical. With a symmetrical woofer arrangement, e.g. one woofer above and one below this unit, it is possible to build coherent loudspeakers with a symmetrical and stable radiation pattern combined with a smooth frequency response. The midrange unit has an injection moulded metal chassis for strength and stability. The polypropylene cone is carefully matched to a high loss rubber surround. The large voice coil diameter (39mm) allows efficient heat transfer for stable voice coil temperature. The high frequency unit has a vacuum formed, precoated fabric dome diaphragm, with its voice coil immersed in magnetic fluid for improved heat transfer and damping. A small, efficient magnet made from neodymium-iron-boron provides the magnetic field.

NOTES

DEC.03 MI14-001

Response curve recorded in anechoic chamber (Free-field, 4 pi radiation) with 0.5m microphone distance. The loudspeaker is mounted in a closed box of 7 l net volume.



TECHNICAL DATA DOME TWEETER.

NOMINAL IMPEDANCE	6	Ohms	VOICE COIL RESISTANCE	4.8	Ohms
RECOMMENDED FREQUENCY RANGE	3000-25000	Hz	VOICE COIL INDUCTANCE (EQUIVALENT)	0.05	mН
SHORT TERM MAXIMUM POWER *	220	W	VOICE COIL DIAMETER	26	mm
LONG TERM MAXIMUM POWER *	90	W	VOICE COIL HEIGHT	1.5	mm
CHARACTERISTIC SENSITIVITY (1W, 1m)) 89	dB SPL	MOVING MASS	0.3	g
			EFFECTIVE PISTON AREA	7.0	sq.cm
			LINEAR COIL TRAVEL (p-p)	0.5	mm
AIR GAP HEIGHT	2.0	mm	FREE AIR RESONANCE	1800	Hz
MAGNETIC GAP FLUX DENSITY	1.3	T			
FORCE FACTOR	2.45	N/A			
			1		

^{*} IEC 268-5. VIA HIGH PASS BUTTERWORTH FILTER: 3500 Hz, 12 dB/oct

TECHNICAL DATA CONE DRIVER

NOMINAL IMPEDANCE	8	Ohms	VOICE COIL RESISTANCE	5.6	Ohms	
RECOMMENDED FREQUENCY RANGE	150-4000	Hz	VOICE COIL INDUCTANCE (EQUIVALEN	NT) 0.5	mН	
SHORT TERM MAXIMUM POWER *	400	W	FORCE FACTOR	7.0	N/A	
LONG TERM MAXIMUM POWER *	110	W	FREE AIR RESONANCE	84	Hz	
CHARACTERISTIC SENSITIVITY (1W, 1m)	89	dB SPL	MOVING MASS	6.0	g	
			AIR LOAD MASS IN IEC BAFFLE	0.5	g	
			SUSPENSION COMPLIANCE	0.6	mm/N	
VOICE COIL DIAMETER	39	mm	SUSPENSION MECHANICAL RESISTANC	E 2.7	Ns/m	
VOICE COIL HEIGHT	8.0	mm	EFFECTIVE PISTON AREA	68	sq.cm	
AIR GAP HEIGHT	6.0	mm				
LINEAR COIL TRAVEL (p-p)	2.0	mm				
MAXIMUM COIL TRAVEL (p-p)		mm	VAS	3.6 Li	3.6 Litres	
			QMS	1.27		
MAGNETIC GAP FLUX DENSITY	0.85	T	QES	0.39	1.39	
MAGNET WEIGHT	0.42	Kg	QTS	0.30	.30	
TOTAL WEIGHT	1.35	Kg	ı			

250 Hz

6 dB/oct

* IEC 268-5 VIA HIGH PASS BUTTERWORTH FILTER: