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## Technical data

<b>Power RMS / max.</b>	P	200 / 400 Watts
<b>Impedance</b>	Z	2 x 2 $\Omega$
<b>DC resistance</b>	Re	3.4 $\Omega$
<b>Resonance frequency</b>	Fs	46 Hz
<b>Mechanical Q factor</b>	Qms	4.45
<b>Electrical Q factor</b>	Qes	0.59
<b>Total Q factor</b>	Qts	0.52
<b>Compliance</b>	Cms	272 $\mu\text{m/N}$
<b>Equivalent air volume</b>	Vas	17.3 L
<b>Force factor</b>	B*I	8.6 Tm
<b>Efficiency 1 W / 1 m</b>	SPL	90 dB
<b>Cone area</b>	Sd	214 $\text{cm}^2$
<b>Moving mass</b>	Mms	44.2 g
<b>Cone material</b>		Hand-scooped paper cone
<b>Mechanical resistance</b>	Rms	0.74 kg/s
<b>Voice coil diameter</b>	$\emptyset$	42.5 mm
<b>Voice coil winding height</b>		12.5 mm
<b>Max. linear excursion</b>	Xmax+/-	4.0 mm
<b>Outer diameter</b>	$\emptyset$	239 mm / 9.41"
<b>Installation diameter</b>	$\emptyset$	175 mm / 6.89"
<b>Installation depth</b>		40 mm / 1.57"

## Recommended enclosure volumes

### Sealed box

Net volume 3 L

Lower limiting frequency (-3dB) 63 Hz

- Highpass: Butterworth; 12 dB/octave; crossover frequency 40 Hz

- Additional EQ filter: center frequency 90 Hz; Q factor 3.0; gain -4 dB

- Lowpass: Butterworth; 24 dB/octave; crossover frequency 80 - 100 Hz

### DSP settings

### Vented box

	For one subwoofer	For two subwoofers
Net volume	12 L	24 L
Port diameter	$\emptyset$ 60 mm / 2.36"	80 mm / 3.15"
Port area	28 $\text{cm}^2$	50 $\text{cm}^2$

Port length 25 cm / 9.84" 20 cm / 3.94"  
 Port tuning frequency Fb 46 Hz 46 Hz  
 Lower limiting frequency (-3dB) 45 Hz 45 Hz

DSP settings

- Highpass: Self-Define; crossover frequency 40 Hz; Q factor 1.3
- Additional EQ filter: center frequency 67 Hz; Q factor 3.0; gain -3 dB
- Lowpass: Butterworth; 24 dB/octave; crossover frequency 80 - 100 Hz

## Compatibility

Suitable for all BMW model ranges with under-seat subwoofers



BMW vehicle compatibility (Status November 2020):

Series	Type	Model	Model year	Front door	Rear door	Center	Subsequent rear	Back shelf	Headliner / Pillar	Subwoofer
1series	E81	3-door	2004 - 2011	UP CABEMV-FRT1				UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2
				UP X8BMV-FRT1				UP X8BMV-FRT3	UP W8BMV-D	
								UP X8BMV-FRT3	UP W8BMV-D	
E82	Coupe	2004 - 2011	UP CABEMV-FRT1				UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT1				UP X8BMV-FRT3	UP W8BMV-D		
							UP X8BMV-FRT3	UP W8BMV-D		
E87	5-door	2004 - 2011	UP CABEMV-FRT1				UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT1				UP X8BMV-FRT3	UP W8BMV-D		
							UP X8BMV-FRT3	UP W8BMV-D		
E88	Convertible	2004 - 2011	UP CABEMV-FRT1			UP CABEMV-FRT1			UP W8BMV-S2	
			UP X8BMV-FRT1					UP W8BMV-D		
F20	5-door	From 2011	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F21	3-door	From 2011	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F48	5-door	From 2019	UP CABEMV-FRT2		UP CABEMV-FRT2		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
Zseries	F22	Coupe	From 2011	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP W8BMV-S2	
				UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D	
F23	Convertible	From 2011	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F44	Grand Coupé	From 2020	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F45	Active Tourer	From 2014	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F46	Gran Tourer	From 2015	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F87	M2 Coupé	From 2015	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
3series	E90	Sedan	2005 - 2011	UP CABEMV-FRT1		UP X8BMV-CTR3		UP CABEMV-FRT3	UP W8BMV-S2	
				UP X8BMV-FRT1		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D	
E91	Touring	2005 - 2011	UP CABEMV-FRT1	UP CABEMV-FRT2	UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT1	UP X8BMV-FRT2	UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
E92	Coupe	2005 - 2011	UP CABEMV-FRT1		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT1		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
E93	Convertible	2005 - 2011	UP CABEMV-FRT1		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT1		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F30	Sedan	From 2012	UP CABEMV-FRT2	UP CABEMV-FRT2	UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2	UP X8BMV-FRT2	UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F31	Touring	From 2012	UP CABEMV-FRT2	UP CABEMV-FRT2	UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2	UP X8BMV-FRT2	UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F34	Gran Turismo	From 2013	UP CABEMV-FRT2	UP CABEMV-FRT2	UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2	UP X8BMV-FRT2	UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F80	M3	2014 - 2015	UP CABEMV-FRT2	UP CABEMV-FRT2	UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2	UP X8BMV-FRT2	UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
G25	Sedan	From 2019	UP CABEMV-FRT2	UP CABEMV-FRT2	UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2	UP X8BMV-FRT2	UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
G21	Touring	From 2019	UP CABEMV-FRT2	UP CABEMV-FRT2	UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2	UP X8BMV-FRT2	UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
4series	F32	Coupe	From 2014	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2
				UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D	
F33	Convertible	From 2014	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F36	Gran Coupé	From 2014	UP CABEMV-FRT2	UP CABEMV-FRT2	UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2	UP X8BMV-FRT2	UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F82	M4 Coupé	From 2014	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		
F83	M4 Convertible	From 2014	UP CABEMV-FRT2		UP X8BMV-CTR3		UP CABEMV-FRT3	UP CABEMV-FRT3	UP W8BMV-S2	
			UP X8BMV-FRT2		UP X8BMV-FRT3		UP X8BMV-FRT3	UP W8BMV-D		

Speaker type:  
 FRT1 ■ FRT2 ■ FRT3 ■

\* Only for models with Harman/Kardon sound system or higher  
 \*\* Only for models with Top-Inf system or higher

## Scope of delivery

- 2 x Subwoofer MATCH MW 8BMW-D
- 2 x Plug connector for original BMW cable harness
- 1 x Instruction manual