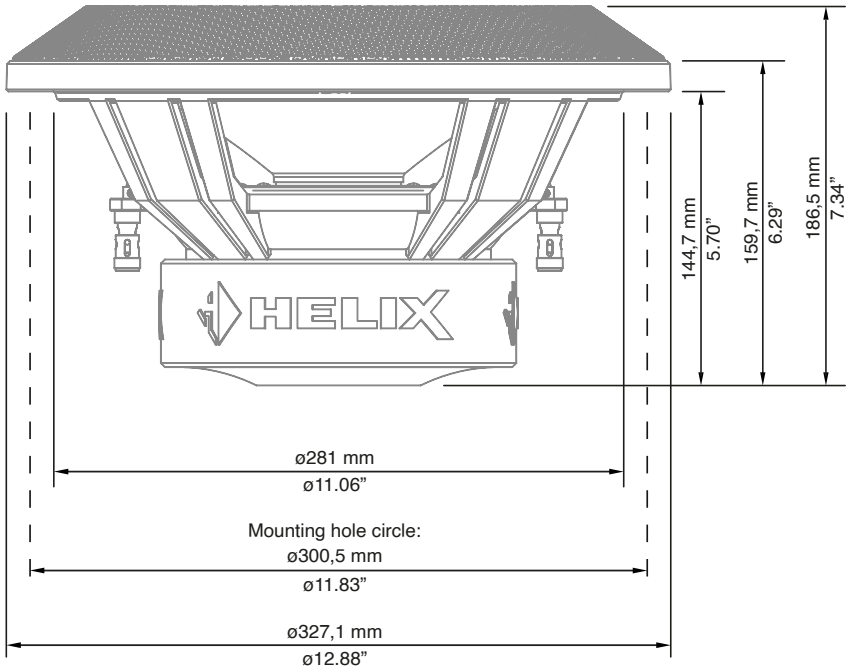
IQ W12-DVC2

HELIX
IMPACT
Q-SERIES

300MM / 12INCH
2X2Ω PERFORMANCE
SUBWOOFER

- **Audiophile grade subwoofer** – ensures sublime sound quality with superior low frequency extension and accurate dynamics
- **Engineered for high power** – handles up to 750 Watts RMS for most demanding system designs
- **Tuneable Mass System (TMS)** – Adjustable cone weight allows fine-tuning of Thiele-Small-Parameters pre- and post-installations
- **Flexible connection** – 2 x 2 Ohms dual voice coil for flexible system configuration
- **Compact enclosure compatibility** – High-performance subwoofers designed for space-saving installations
- **Sophisticated design** – Features a meticulous developed die-cast aluminum basket with an integrated grille for durability

Dimensions
Abmessungen



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Technical data
Technische Daten

Power handling *Belastbarkeit*	*RMS* *Max.*	750 W 1.500 W
Impedance *Impedanz*	*Z*	2 x 2 Ω
DC resistance *Gleichstromwiderstand*	*Re*	2 x 1,9 Ω
Resonance frequency *Resonanzfrequenz*	*Fs*	– / +1 TM / +2 TM / +3 TM 36 Hz / 32 Hz / 29 Hz / 27 Hz
Mechanical Q factor *Mechanische Güte*	*Qms*	5,37
Electrical Q factor *Elektrische Güte*	*Qes*	– / +1 TM / +2 TM / +3 TM 0,53 / 0,59 / 0,64 / 0,69
Total Q factor *Gesamtgüte*	*Qts*	– / +1 TM / +2 TM / +3 TM 0,48 / 0,53 / 0,57 / 0,62
Compliance *Nachgiebigkeit*	*Cms*	96 µm/N
Equivalent air volume *Äquivalentvolumen*	*Vas*	35 L
Force factor *Kraftfaktor*	*B*l*	18,1 Tm
Sensitivity *Wirkungsgrad*	*SPL*	90 dB @ 2,83V / 1m 87 dB @ 1W / 1m
Cone area *Membranfläche*	*Sd*	515 cm²
Moving mass *Bewegte Masse*	*Mms*	– / +1 TM / +2 TM / +3 TM 199 g / 252 g / 305 g / 358 g
Mechanical resistance *Mechanischer Widerstand*	*Rms*	8,5 kg/s
Voice coil diameter *Schwingspulendurchmesser*	*Ø*	63 mm
Voice coil winding height *Schwingspulenwickelbreite*		34 mm
Max. linear excursion *Max. linearer Membranhub*	*Xmax*	+/- 12 mm

Enclosure recommendations
Gehäuseempfehlungen

Sealed box
Geschlossenes Gehäuse

Net volume *Nettovolumen*		– / +1 TM / +2 TM / +3 TM 33 L / 47 L / 65 L / 115 L
Lower limiting frequency (-3 dB) *Untere Grenzfrequenz (-3dB)*		– / +1 TM / +2 TM / +3 TM 53 Hz / 44 Hz / 37 Hz / 31 Hz

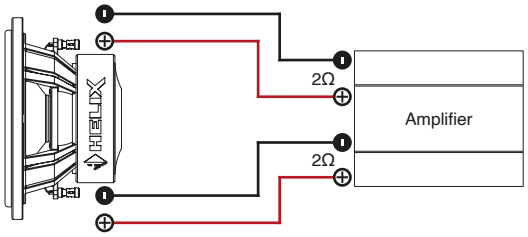
Vented box
Bassreflex-Gehäuse

Net volume *Nettovolumen*		– / +1 TM / +2 TM / +3 TM 70 L / 90 L / 110 L / 140 L
Port diameter *Reflex-Kanaldurchmesser*	*Ø*	100 mm
Port area *Reflex-Kanalfläche*		78 cm²
Port length *Reflex-Kanallänge*		– / +1 TM / +2 TM / +3 TM 27 cm / 31 cm / 37 cm / 39 cm
Port tuning frequency *Tunnelabstimmungsfrequenz*	*Fb*	– / +1 TM / +2 TM / +3 TM 31 Hz / 26 Hz / 22 Hz / 19 Hz
Lower limiting frequency (-3 dB) *Untere Grenzfrequenz (-3dB)*		– / +1 TM / +2 TM / +3 TM 27 Hz / 22 Hz / 19 Hz / 16 Hz

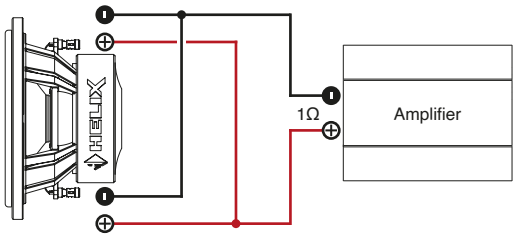
TM = Tuning Mass

Wiring configurations
Anschluss

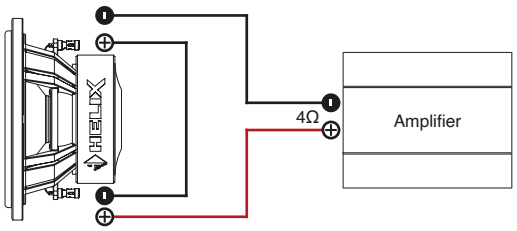
2 x 2 Ω configuration on two amplifier channels
2 x 2 Ω Konfiguration an zwei Verstärkerkanälen



1 x 1 Ω configuration on one amplifier channel
1 x 1 Ω Konfiguration an einem Verstärkerkanal



1 x 4 Ω configuration on one amplifier channel
1 x 4 Ω Konfiguration an einem Verstärkerkanal



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