

CELESTION GUITAR AND BASS SPEAKERS

The Voice of Rock & Roll





PARTNERS IN TONE
LZZY HALE
plays Vintage 30

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CELEBRATING 100 YEARS

The birth of the guitar speaker goes back further than you might expect



Celestion celebrates its 100 years anniversary in 2024 and, while we haven't been making guitar speakers since day one, the roots of many models we produce today can be traced a surprisingly long way back to speakers that were originally designed in the pioneering days of radio.

As part of a year of celebrations, the new Celestion 100 evokes the tone of the world's first purpose-built guitar speakers. These exquisite alnico speakers were based on the original 'G12' designed for use with radiograms, re-designed by Celestion Chief Engineer Les Ward to be tough enough to stand up to the legendary British guitar amps of the early 1960s.



Since then, the G12 has evolved to play a key role in music history as the Voice of Rock & Roll. Celestion's Alnico Blue, together with Vox amps, voiced the Beatles' legendary performance at Shea Stadium, while Marshall's original 4x12 featured Alnico Silvers and the 4x12 cabinets behind Jimi Hendrix were loaded with G12M and later G12H Greenbacks.

The G12 has maintained its longevity by sheer adaptability, spawning near countless variations as it has been tweaked, modified and re-invented, to suit changing genres, tastes, players and playing styles.



As rock music got harder, amplifiers got bigger and the demand for greater volume levels grew even further, so the G12 changed again. By the late 1970s players could rock out with the G12-65 and G12-80, and in the early 80s, the G12T-75. With their thoroughly modern construction materials, these speakers defined a new sound for a new era.

However it was the desire for the 'old sound' once more that gave birth to the Vintage 30 during the second half of the 1980s. With its vintage tonality coupled with a modern power handling capability, the Vintage 30 swept away almost all that came before, redefining the sound of hard rock and heavy metal and becoming the go to speaker for iconic players from that time onwards.

Along the way, we've also celebrated guitar legends for whom Celestion has been an important part of their sound. None more so than the late and greatly missed Edward Van Halen, whose reputation as one of the all-time greatest players of the G12M speaker is celebrated by the G12 EVH Signature speaker.

As much as guitarists continue to treasure all things vintage, Celestion has always been an innovator. Light in weight but fully loaded with tone, speakers with neodymium magnets or ultra-optimised magnet assemblies recognise the fact that not all working guitarists have a road crew to do their heavy lifting.



Celestion impulse responses provide exact digital recreations of classic speaker, cabinet and microphone combinations for studio players and users of modelling amps. The SpeakerMix Pro DAW plugin features Celestion's proprietary DSRs: the next generation of IR that incorporates all the non-linear behaviour of a real-world speaker to deliver unprecedented levels of tonal nuance.

In this most important year, the 2024 brochure brings together the latest ranges of Celestion guitar and bass speakers, and digital tone products. All born of a century of speaker engineering know-how, ready to inspire a new generation of players.



100

Meticulously hand-crafted in the UK, the Celestion 100 celebrates the world's first purpose-built guitar loudspeaker which, in various guises, has voiced some of the most legendary and memorable riffs and solos of all time.

CELEBRATING A LEGENDARY GUITAR SPEAKER

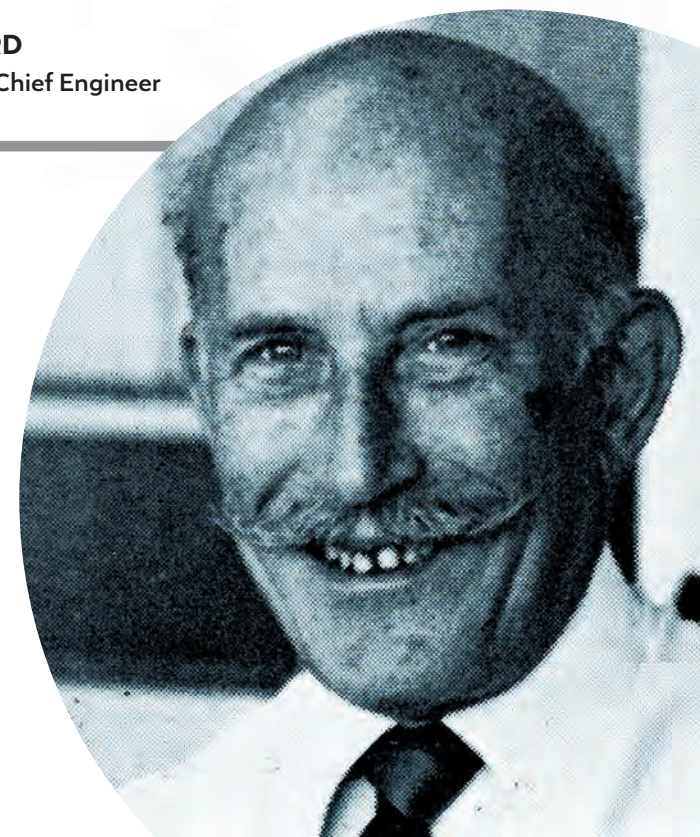
Referencing our own collection of early alnico speakers, the Celestion 100 is born of a painstaking research and development process, analysing, understanding and then replicating the very essence and tone of these exquisite collector's items.

Each detail has been carefully considered to ensure the sonic character of the 100 is completely in keeping with those late 1950s designs. An all-new cone has been formulated and then benchmarked against our vintage cones. A carefully measured amount of thin and light edge treatment is applied to protect and enhance the cone's operation which is then matched with a vintage-look dust dome for absolute authenticity.

Exceptional tonality is further assured with the development of a new voice coil based on Les Ward's original T530 design, which has been re-imagined using today's more heat-resistant materials to offer an enhanced power rating of 30W. A bolt-on magnet assembly with period-correct label completes a speaker that looks as great as it sounds.



LES WARD
Celestion Chief Engineer
until 1979



Invented in 1936 as a radio speaker, the general purpose 'G12' was used in many applications. Several versions including the G44, CT3757 and B024—all built with alnico magnets and in colours such as silver, 'poly grey' and 'hammertone oyster'—were manufactured during the late 1950s as the speaker began to be deployed in the guitar amplifiers of the time. But as amplified music got louder, more robust speakers were needed to keep up with the demand for increased power.

In 1959 Celestion Chief Engineer Les Ward created a specially toughened version of the G12 to withstand more heat and mechanical vibration. This speaker evolved into the T530 Alnico Blue: the world's first speaker designed specifically for use with guitar amplifiers.

Installed in Vox AC15 and AC30 amplifiers, the speaker was instantly recognisable with its iconic azure blue livery. Soon after, the toughened G12 was also adopted by Marshall Amplification, given a more traditional silver paint job and, as T652, used in legendary Marshall cabinets including the 1962 'Bluesbreaker' combo amp.

100

- 12" 305mm
- 1 3/4" Voice Coil
- 30 Watts
- 8/16 Ohm
- 100 dB

Expect a blooming low end and bell-like chiming treble together with a sweet, shimmering presence. The 100 compresses beautifully when pushed to distortion, with a glorious, dampened attack that is the trademark of the great Celestion alnico guitar speakers.



ALNICO

From the 60s to the present day, the unmistakable sound of the Celestion Alnico magnet guitar speaker with its trademark laid back attack continues to shape popular music. Back then, we answered the call from our friends at Vox and Marshall for a dedicated guitar speaker which became the now-famous 'Blue'. That speaker has gone on to inspire a complete range of speakers designed to deliver the much-loved Celestion Alnico character with a variety of tonal flavours and power ratings.

BLUE

- 12" 305mm
- 1 3/4" Voice Coil
- 15 Watts
- 8/15 Ohm
- 100 dB

The legendary Blue is widely acknowledged as the benchmark for guitar speaker perfection. Noted for its high-frequency brilliance and sparkle, the upper mids sing, the low mids are slightly scooped and the bass perfectly rounded. It's a speaker that evokes rich definition, developing a beautiful, musical compression when pushed.

“

PARTNERS IN TONE BRIAN MAY

“Nothing else sounds like a Celestion Blue.”



RUBY

- 12" 305mm
- 1 3/4" Voice Coil
- 35 Watts
- 8/16 Ohm
- 100 dB

Bringing the instantly familiar, broken-in Celestion alnico vibe, the Ruby is arguably recognised as the warmest of the Celestion Alnicos, oozing a richly musical vintage warmth, with mellow highs and a smooth, vintage midrange. And at 35-watts power handling, it's ideal for use with mid-powered amps and combos.



CREAM

- 12" 305mm
- 1 3/4" Voice Coil
- 90 Watts
- 8/16 Ohm
- 100 dB

For amps from 1-watt to 90-watt, the superbly balanced Cream combines power handling capability with a seemingly never-ending supply of Alnico tone. It has quickly earned a reputation for smooth, sophisticated mids, further characterised by a fine-grained detail that adds a high-definition quality to the speaker's vocal range, yielding more expressiveness than you ever thought possible.



GOLD

- 12" 305mm
- 1 3/4" Voice Coil
- 50 Watts
- 8/15 Ohm
- 100 dB

Bringing a modern edge to the Celestion Alnico range, the Gold is defined by softer high-frequencies with a more defined upper-mid vocal character. With strong projection in the lows and low-mids, the Gold is recognised as the punchiest of the Alnicos, perfect for huge rhythm voicings and saturated vocal lead tones.



G10 GOLD

- 10" 254mm
- 1 3/4" Voice Coil
- 40 Watts
- 8/15 Ohm
- 98 dB

The mellowness of the original Blue, with the speed and response of a 10" driver. The G10 Gold blends unmistakable Alnico class with a rich low-end, creamy mid-range and vintage chiming top-end. It is springy, warm, revealing and highly expressive adding a classy sheen to any amp with depth and shimmer.

“

PARTNERS IN TONE BRAD PAISLEY

“With the Gold, Celestion has nailed the tone of the original Blue in a higher watt speaker. The Celestion Blue sound has always been a big part of my tone.”





GREENBACK

As the blues gave birth to hard rock, Celestion Greenbacks proved to be the right tone at the right time. Offering a higher power rating than Alnico speakers, the G12M and G12H with its ceramic magnet and responsive feel was a perfect complement to players who were driving their amps harder and harder. The speakers that gave us Clapton's 'Bluesbreaker' tone on All Your Love and the sonic bombast of Hendrix's Star Spangled Banner at Woodstock, remain the benchmark by which all others are measured.

G12M GREENBACK

- 12" 305mm
- 1 3/4" Voice Coil
- 25 Watts
- 8/16 Ohm
- 98 dB

The G12M Greenback has evolved over the decades but still retains its essential, sought-after tone. This model is voiced with additional broad mid-range attack and restrained top-end to give a forward, punchy attitude to chords and a searing lead tone without fizz. With its well-controlled low-end it can be used singly in low-powered amps, or in multiples for high-power rock heads, bringing drive and definition to modern high gain amps.



CELESTION
 Model G12 M Greenback
 Power capacity 25 WATTS
 Impedance 8 OHMS
 Bass resonance 75 Hz
 This loudspeaker is the original Greenback specification. Care should be taken not to exceed the 25-Watt power rating.
 CELESTION INTERNATIONAL LTD.

“

PARTNERS IN TONE
TONY IOMMI

“Celestion is the voice of rock. Always has been. Always will be.”



G12H ANNIVERSARY

- 12" 305mm
- 1 3/4" Voice Coil
- 30 Watts
- 8/16 Ohm
- 100 dB

With a strong, aggressive low-end and powerful low-mids, the G12H penetrates any mix with an attacking upper mid-range and an ice-cool top-end. Used singly or in quartets it provides serious attitude and swagger to soft amp tones, easily cutting through loud stage levels for chord work, and imparting a hard edge to single notes.



G10 GREENBACK

- 10" 254mm
- 1 3/4" Voice Coil
- 30 Watts
- 8/16 Ohm
- 95 dB

Recapturing the legendary sound of Celestion's 10-inch speakers from the 1970s, the G10 Greenback delivers a surprisingly meaty tone. Low in output but with the weighty low-end balance of a 12", it features a complex mid-range and smooth, vintage top-end. In small combos this speaker adds real class, and in a 4x10 gives rise to a raunchy, full-bodied tone, rich in low-end thump.



G12EVH EDDIE VAN HALEN SIGNATURE SPEAKER

- 12" 305mm
- 1 3/4" Voice Coil
- 20 Watts
- 8/15 Ohm
- 96 dB

In the studio or on the stage, the Celestion 20-watt 'Greenback' has played an essential role to Edward Van Halen in making the tones that rewrote the book on guitar sound. With the addition of a black rear can featuring the EVH logo and his unmistakable red, white and black stripes, the G12EVH was born. Unmistakable look but, more importantly, unmistakable tone.

“

EVH™ and the EVH™ logo are the registered trademark of E.L.V.H. Inc. The unique striped design is a copyright (2001) of E.L.V.H. Inc. All rights reserved.

“Since Day One, Celestion speakers have been a big part of my sound.”





CREAMBACK

The ever-popular Greenback is the undisputed reference point for sweet, harmonically rich tone and also for the way in which the output of an amplifier should be articulated as it tips from clean to crunch and through to fully-saturated overdrive. But what if you need Greenback sonics and response with more than 30-Watts power handling? Enter the Creambacks.

“

PARTNERS IN TONE JOE PERRY

“They are beyond the mechanical fact that they are speakers. They’re iconic and the name Celestion literally puts you in another zone... they always have for me.”

G12M-65 CREAMBACK

- 12" 305mm
- 1 3/4" Voice Coil
- 65 Watts
- 8/16 Ohm
- 97 dB

Bringing vintage tone to modern-day amps, the G12M-65 Creamback delivers the familiar, woody tone of the G12M Greenback along with greater power handling. This brings with it low end grunt complementing the warm and vocal mid range, crunchy upper-mids and sweet, refined highs.



G12H-75 CREAMBACK

- 12" 305mm
- 1 3/4" Voice Coil
- 75 Watts
- 8/16 Ohm
- 100 dB

The G12H-75 Creamback provides 75-watts of power handling and unmistakable G12H tone, with a tighter low end than the G12M-65 Creamback, and a punchier, more dynamic high end. The H magnet brings additional focus, body and girth to the Creamback tone, thickening single notes for a highly articulate, vocal character.



NEO CREAMBACK

- 12" 305mm
- 1 3/4" Voice Coil
- 60 Watts
- 8/16 Ohm
- 97 dB

Every ounce a Classic Celestion, the Neo Creamback delivers all the magical tone you'd get from a conventional Creamback at around half the weight of a traditional speaker, thanks to its Neodymium magnet. Expect the same low end punch, warm, vocal midrange and sweet highs that made the Creamback famous: push it hard and enjoy the 'race-car growl' that sets pulses racing.



G10 CREAMBACK

- 10" 254mm
- 1 3/4" Voice Coil
- 45 Watts
- 8/16 Ohm
- 96 dB

Everything guitarists love about Celestion Creambacks, wrapped up in a 10-inch package. Warm, expressive, detailed and well-balanced, this speaker performs beautifully in singles, pairs or 4x10 configurations.

“

PARTNERS IN TONE KENNY WAYNE SHEPHERD

“When I wanted a speaker that’s road worthy, studio ready, and has that fat vintage tone, I went to the company that makes music history. Celestion.”





FOREVER CELESTION

As the blues-infused 70s gave way to the harder rocking 80s, the only thing higher than the guitar amp gain was the hairstyles. And so a new range of speakers evolved, capable of articulating the complex, overdriven sounds and blistering lead lines of the time, with the ability to handle increasingly high amplifier outputs.



VINTAGE 30

- 12" 305mm
- 1 3/4" Voice Coil
- 60 Watts
- 8/16 Ohm
- 100 dB

Back in 1986 we combined an 'H' magnet (the closest in performance to Alnico) with a new cone and voice coil employing contemporary materials to create our most revealing speaker, the Vintage 30. This legend features enormously detailed and complex overtones, a warm low-end, a famously rich vocal mid-range and a beautifully detailed top-end. It reveals the complexities in hand-wired boutique amps, and exhibits a wonderfully intricate vintage three dimensional crunch.

“

PARTNERS IN TONE SLASH

“I've been using Celestion Vintage 30 speakers my whole career and can't imagine using anything else.”



G12-65

- 12" 305mm
- 1 3/4" Voice Coil
- 65 Watts
- 8/15 Ohm
- 97 dB

With its fast attack and tightly controlled low-end, the G12-65 became a firm favourite with hard rock players by the early 80s, particularly in 4x12s. And still today, the precisely tuned mid-range and crisp defined top-end contribute to an aggressive crunch sound that punches through the mix while the mid-range warmth and detail give weight and depth to single notes.



G12M-50 HEMPBACK

- 12" 305mm
- 1 3/4" Voice Coil
- 50 Watts
- 8/16 Ohm
- 99 dB

Delivering a thump in the low end, a finely balanced midrange (with just a little Celestion crunch) and smooth, singing highs, the Hempback is a speaker that's perfect for deploying with brighter sounding amps, where a more laid-back attack is required. Load one up for a smoky sound that's musical and responsive, and let your hemp tone shine through.



G10 VINTAGE

- 10" 254mm
- 1 3/4" Voice Coil
- 60 Watts
- 8/16 Ohm
- 99 dB

With the fast response of a 10" but with the strong and creamy vocal tones of a 12", the G10 packs an impressive punch and is the ideal choice to add depth to hollow-sounding amps, or for players who want to get humbucker-type girth from single-coils. Can be used singly to add vocal warmth to small valve combos, or in quartets for a weightier but still lively attack.

“

PARTNERS IN TONE STEVE VAI

“Celestion speakers speak honestly and clearly. They enable me to hear what I'm thinking.”





PARTNERS IN TONE
RON JACKSON
plays Copperback

POWER AND TONE

Fashions in guitar amplification are constantly evolving. The current desire for increased portability calls for speakers that deliver greater power handling or reduced weight, and sometimes both. But it's reassuring to know that whatever the size of your cab or the output of your amp, you'll never have to choose between power and tone.



COPPERBACK

- 12" 305mm
- 2 1/2" Voice Coil
- 250 Watts
- 4/8/16 Ohm
- 100 dB

Rated at 250-watts but weighing in at just 5lbs/2.3Kgs, the highly-musical Copperback supplies tons of tone. For players who prefer more transparency and less midrange vocal intensity, this Neodymium-magnet speaker reveals the best from your amplifier and playing without additional colouration. The speaker's unique response has a tight low end, neutral low mids, a clear, open upper-mid definition and well-controlled high treble, providing unparalleled dynamics and all the headroom and touch sensitivity you could possibly need.



G12T-75

- 12" 305mm
- 1 3/4" Voice Coil
- 75 Watts
- 8/16 Ohm
- 97 dB

Featured in the world's top selling 4x12 cabinet, the G12T-75 combines a huge, tightly controlled low-end and aggressive mid-range with a softened top-end that adds a welcome sweetness to overdrive, distortion and aggressive upper harmonics. A high powered rock player's dream come true.



CLASSIC LEAD 80

- 12" 305mm
- 1 3/4" Voice Coil
- 80 Watts
- 8/16 Ohm
- 99 dB

A natural evolution of the G12-80 and a firm favourite with lead guitarists, the Classic Lead uses a fibreglass voice coil former to deliver an 80W power rating and a unique dynamic sound. With a tightly controlled low-end, strong high bass / low mid punch, aggressive mid range attack and a powerful yet controlled top-end, power chords make their presence felt while the subtle high-frequency roll-off makes this speaker ideal for solos.



G12H-150 REDBACK

- 12" 305mm
- 2" Voice Coil
- 150 Watts
- 8/16 Ohm
- 100 dB

Designed for extreme power handling without compromising tone, the G12H-150 Redback delivers balance, responsiveness and superb playability, all with muscular ease. With a tight, well-controlled low end, detailed midrange and more relaxed treble, expect tons of smooth, clean tone in pedal/combo configurations, or simply hook one up to your 100-watt head for giant slabs of tone.



PARTNERS IN TONE
JOE SATRIANI

plays G12T-75





ACCESS ALL AREAS

For ambitious players looking for bold, original tones to break new sonic ground, these innovative speakers look to the future, providing new tonal flavours for guitarists seeking out their signature sound.

“

**PARTNERS IN TONE
PETE THORN**

“I love the tones I got out of it, real easy to plug in and dial up.”

NEO V-TYPE

- 12" 305mm
- 1 3/4" Voice Coil
- 70 Watts
- 8/16 Ohm
- 98 dB

This sweet sounding speaker has a superbly balanced sonic signature that imparts a vintage musicality to your tone. Clean sounds have just the right amount of upper-mid chime and HF sparkle to add clarity and definition. Crank it up for a sizzling overdrive and some raw rhythmic grind, but expect a little extra definition and note separation for your searing, single note lead lines thanks to some neodymium magnet magic.



VT JUNIOR

- 10" 254mm
- 1 3/4" Voice Coil
- 50 Watts
- 8/16 Ohm
- 95 dB

Delivering the same balance and musicality as its big brother the V-Type, the VT junior brings all the speed and response you'd expect from a 10, along with an additional low mid punch and high end sparkle.



A-TYPE

- 12" 305mm
- 1 3/4" Voice Coil
- 50 Watts
- 8/16 Ohm
- 98 dB

Inspired by our favourite modern American tones, the A-Type is a different kind of guitar speaker from Celestion. Of course, it still has the musical and revealing three-dimensional quality that is the heart and soul of a Celestion guitar speaker, however it features a more laid-back midrange which reveals body and complexity in the upper register, accompanied by full and rounded low frequencies.



V-TYPE

- 12" 305mm
- 1 3/4" Voice Coil
- 70 Watts
- 8/16 Ohm
- 98 dB

The V-Type delivers authentic Celestion tone together with vintage musicality and a thrilling, tactile responsiveness that leaves you feeling connected to the music and makes you want to keep on playing. Cleans are true across the lows, mids and highs, with just enough upper-mid chime and HF sparkle to add clarity and definition. Or crank it up for a sizzling overdrive and raw rock tones, with plenty of midband warmth to give body and substance to lead note playing.



G15V-100 FULLBACK

- 15" 381mm
- 2" Voice Coil
- 100 Watts
- 8/16 Ohm
- 99 dB

Retaining Celestion's classic, harmonically complex and finely detailed mid-range, the larger cone of the Fullback shifts this characteristic down a register. Clean sounds are warm and expressive, revealing and enhancing the qualities of your amp and guitar without unnecessary colouration. Overdrive sounds are complex and musical; push harder for a weighty, contralto growl, with a softer, warmer mid-range.

“

**PARTNERS IN TONE
STEFFEN KEMMERER**

“When I first heard a 412 cabinet loaded with A-Type/V-Type Celestions, I couldn't believe my ears.”



CELESTION DIGITAL

Authentic Celestion Tones in Digital Format

Nobody knows more about guitar speaker tone than Celestion. So who better than Celestion to bring you stunning combinations of speakers, microphones and their placements in a range of digital downloads.



SpeakerMix and DSRs

SpeakerMix Pro is a self-contained studio grade plug-in, dedicated to bringing ground-breaking levels of detail and realism to guitar and bass speaker tone on your digital audio workstation.

Much more than a simple convolution engine or IR loader, with SpeakerMix Pro you can track and mix up to six channels. That means you can combine up to six different speakers responses in any combination you choose, without worrying about real-world recording problems like phase matching.



Producer/Engineer and SpeakerMix Pro user Chris Clancy

SpeakerMix Pro is designed to work best with Celestion's proprietary Dynamic Speaker Responses (DSRs), the next generation of Impulse Response that incorporates all the non-linear behaviour of a speaker in the real world to deliver unprecedented levels of tonal nuance. Got a large library of Celestion IR wav files? No problem, they're fully compatible. Likewise, for other third party IR wav files and even IRs that you've recorded yourself: load them up and you can use them to mix stunning tone with SpeakerMix Pro.

Once you've found your perfect mix(es), you can save them as presets and return to them time and again or share them with friends!



Impulse Responses

Captured by award-winning industry professionals in world-class facilities using state-of-the-art recording equipment, Celestion IRs empower you to escape the limitations of a single mic and cabinet setup and explore a universe of possibilities to create your own perfect tone. And once you've found it, you'll be able to recreate it precisely, anytime, anywhere – at home or on the road.

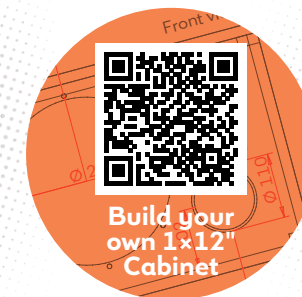
Discover a fantastic range of downloadable guitar speaker tones, featuring classic Celestion speakers, past and present.

For more information visit celestionplus.com

Full Range, Live Response: Dedicated guitar speakers for amp modelers and IRs

The world's first dedicated guitar speakers designed for use with amp modelers and IRs. Celestion's Full Range Live Response speakers are built using our world-leading Pro Audio know-how to deliver a wide bandwidth output for the most accurate sound possible, with a flat and neutral response ensuring there are no unwanted colourations dominating the signal.

Meanwhile, the lighter moving mass and straighter sided cone of the type commonly used with guitar speakers gives these speakers the feel and live response of a traditional guitar speaker, delivering all the physical feedback you'd expect from playing through a conventional guitar rig.



F12-X200

- 12" 305mm
- 2" Voice Coil
- 200 Watts
- 8 Ohm
- 97 dB

The original full range live response speaker. High frequencies are reproduced by a Celestion neodymium magnet pro audio compression driver. This has been fully integrated with the guitar speaker cone using an on-board crossover enabling the F12-X200 to seamlessly deliver a frequency response from 60Hz all the way up to 20kHz right out of the box.

F12M-150 TRIPLE CONE

- 12" 305mm
- 2" Voice Coil
- 150 Watts
- 8 Ohm
- 97 dB

A more compact and lightweight Full range live response option. The F12M-150 Triple Cone features two additional precision-designed tweeter cones integrated with the main woofer (making it "Triple Cone"). The tweeter cones extend the overall high frequency response enabling the speaker to deliver near full-range performance (from 60Hz to 12kHz) for a rich and detailed sound.

PARTNERS IN TONE JEFF STINCO

"The IRs are absolutely stunning. I now use them live on all my sounds."





“

**PARTNERS IN TONE
WAYNE SERMON**

“With all the different amp and cab sizes I use, Celestion always has a speaker that does what I need it to do.”

ORIGINALS

As the original name in guitar speakers, we're dedicated to delivering great tone regardless of genre, playing style or budget. Nobody knows more than us about designing and manufacturing guitar speakers and the Celestion Originals are proof of that. This range is built to exacting standards for consistently high quality and reliability, delivering Celestion tone and performance in some of the world's best-selling amps and cabs.

MIDNIGHT 60

- 12" 305mm
- 1 3/4" Voice Coil
- 60 Watts
- 8/16 Ohm
- 96 dB

The Midnight 60 continues Celestion's tradition of delivering rich, classic British tone in innovative new ways, featuring the moving parts that were inspired by the V-Type design, but with a different magnet assembly which has the effect of shifting the tonal balance to give a sonic character more reminiscent of Celestion's vintage G12L speaker.

Whatever the genre, Midnight 60 provides an exhilarating sound in the classic Celestion style. Cleans are well-balanced with just enough top end to make the high frequencies sparkle. Overdriven this speaker brings searing rock tones, with plenty of low-end warmth and mid-band character.



TEN 30

- 10" 254mm
- 1 1/4" Voice Coil
- 30 Watts
- 8/16 Ohm
- 95 dB

Rich and expressive, the Ten 30 combines warm lows with a vocal mid-range and an articulate top end. The clean sound is open and revealing; push hard and you're rewarded with full-blooded Celestion grind.



SEVENTY 80

- 12" 305mm
- 1 3/4" Voice Coil
- 80 Watts
- 8/16 Ohm
- 98 dB

Conceived in the late '90s as the G12P-80, the Celestion Seventy 80 has become one of the most widespread guitar speakers we've ever produced, finding its way into an extensive range of amps and cabs. Delivering a detailed and crisply defined tone, the Seventy 80 has a tightly controlled low-end with a punchy, aggressive upper mid-range. The top-end response is glassy and clear for enhanced treble and a full-range feel without compromising its undeniable Celestion character.

“

**PARTNERS IN TONE
RICK NIELSEN**

“Celestion. Why bother with anything else?”



EIGHT 15

- 8" 203mm
- 1" Voice Coil
- 20 Watts
- 4/8/16 Ohm
- 95 dB

The Eight 15 is ideal for upgrading your bedroom blaster with authentic British tone. Well-balanced mids and highs complement a surprisingly meaty bottom end - it's just about the biggest sounding eight inch speaker we've ever heard! And there's also a 4Ω version, making it ready, willing and able to blast new life into junior combos like the Fender® Champ.





PARTNERS IN TONE
DANIEL KIMBRO
 plays PULSE XL 15.25

PULSE XL BASS SPEAKERS

PULSE XL is a new range of bass guitar speakers engineered with a deep reaching frequency response for a full and round low-end. Punchy and responsive they're sophisticated enough to articulate the smoother sounds, but versatile enough to bring a bold-faced swagger for the times when you need to stand up, dial it up and roar.

Incorporating Celestion 'Smart Design' with an optimised ferrite magnet assembly for increased efficiency, PULSE XL speakers feature straight-sided cellulose cones for maximum bass tonality, multi-roll, fabric surrounds for superb control and deep bass extension, and increased length voice coils for a longer throw and steel chassis for unyielding strength during the heaviest duty performances.



PULSE XL 10.20

10" 254mm	Ferrite	400 Watts	8 Ohm	92 dB
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Great by itself and even better in a 4x10, the PULSE XL 10.20 provides more bass than you'd ever imagine from a 10-inch speaker, along with the speed of response that makes small diameter drivers so popular with bass players that want to cut through the mix. A fabric dust dome contributes to a particularly articulate treble response.



PULSE XL 12.20

12" 305mm	Ferrite	500 Watts	8 Ohm	94 dB
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An increasingly popular choice of speaker format for bass players, this 12-inch driver delivers a rock-solid performance with plenty of warmth and richness in the low end, a detailed and expressive mid-band and a super-smooth treble, courtesy of a felt dust dome. Expect plenty of punch from singles or pairs, or a wall of classic bass tone in 4x12 configurations.



PULSE XL 15.25

15" 381mm	Ferrite	700 Watts	8 Ohm	97 dB
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Plenty of clean, deep bass from this heavy-duty 15-inch driver, along with a defined midrange and the smooth treble response that comes with a felt dust dome. With a solid 700W of power handling, the PULSE XL 15.25 delivers an authoritative performance packed with sweet harmonic overtones.



PULSE XL 1.10 SUPERTWEETER

1" Exit	Conical Horn Type	35 Watts	8 Ohm	103 dB
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For players who want to extend their frequency range for additional high-end attack, the PULSE XL 1.10 Supertweeter delivers all the sweet treble you could possibly ask for.



PULSE BASS SPEAKERS

For those that bring rumble and thunder, Celestion has created PULSE – a range of three powerful, dependable, ferrite magnet bass speakers built to deliver your sound with all the punch and clarity you need to hold down the bottom end in any musical situation. Rigid steel frames ensure maximum energy transfer, highly responsive Kevlar-loaded cones enhance the dynamics, extra-long voice coils extend 'throw' and multi-roll surrounds increase bass response.

“

**PARTNERS IN TONE
REX BROWN**

“I’m literally blown away by these speakers! Thunder!!”



PULSE 10

- 10" 254mm
- Ferrite
- 200 Watts
- 8 Ohm
- 94 dB

With its robust steel-chassis, PULSE 10, provides a rock-solid bass performance whether alone in a single speaker combo, in a 4x10 or even an 8x10 cab. Expect a tight, punchy low end with a warm mid-range that's full of presence, bringing focus and articulation to your playing. This heavy-duty driver truly delivers bass you can feel as well as hear.



PULSE 12

- 12" 305mm
- Ferrite
- 200 Watts
- 8 Ohm
- 94 dB

For bass players demanding well-defined clarity and stunning articulation together with a rich, full tone, PULSE 12 bass speakers deliver an ideal combination of responsiveness and rock solid low end. The Kevlar-loaded cone pulses with up to 200 watts of raw bass power. Expect each note to deliver a thick, percussive attack along with the mid-range necessary to break through in any performance situation.



PULSE 15

- 15" 381mm
- Ferrite
- 400 Watts
- 8 Ohm
- 96 dB

With a longer voice coil for increased 'throw' and a multi-roll surround that provides exceptional linearity and superb bass extension, the 400-watt PULSE 15 is impeccably-designed sonic artillery. Featuring a Kevlar loaded cone and rigid steel chassis designed for maximum energy transfer, this robust and reliable speaker truly is a powerhouse of deep bass tone.

“

**PARTNERS IN TONE
RICKY PHILIPS**

“I experimented with many different amp heads, but I realized the unchangeable constant was a cabinet filled with Celestion speakers.”





PARTNERS IN TONE
TROY SANDERS
plays BL10-100X

BASS SPEAKERS

Expect a potent combination of technology and tone from Celestion bass speakers, built to deliver the exceptional performance demanded by modern amplifiers, while meeting the sonic demands of a wide range of players and playing styles. With a choice of 10", 12" and 15" chassis sizes, impedances and magnet types, the Celestion Bass Speaker range provides amp builders and players looking to upgrade their rigs with a comprehensive range of options.



BL10-100X

- 10" 254mm
- Ferrite
- 100 Watts
- 8 Ohm
- 94 dB

Built for bass without compromise, the 100-watt BL10-100X delivers heavy duty presence with drive, clarity and a full-bodied tone. Fast and articulate, this dependable performer brings clarity and definition to every note.



BN10-200X

- 10" 254mm
- Neo
- 200 Watts
- 8 Ohm
- 96 dB

Expression and musicality come as standard with the 200-watt BN10-200X. Light in weight but not certainly not in performance, this neodymium magnet bass speaker delivers a rich warm tone combined with a powerful low end punch.



BN10-300X

- 10" 254mm
- Neo
- 300 Watts
- 4 Ohm
- 96 dB

Delivering superb low end projection and a detailed mid-range that only an advanced Celestion neodymium motor could be capable of. Available exclusively in 4Ω, the BN10-300X is an excellent and very lightweight tone machine.



PARTNERS IN TONE **CESAR CHANONA**

"In my 20 years of playing only Celestion has given me all of the bass, definition and power I need to sound my best."



BASS SPEAKERS



PARTNERS IN TONE TOMMY STINSON

“I’m loving these 15-inch Celestions. They work great!”

Deploying Neo-magnet ‘BN’ speakers can dramatically reduce the weight of a bass cabinet or combo – a welcome development for any hard-working bass player – while the availability of 4Ω and 8Ω impedance options provides flexibility for configuring single or multiple driver cabinets. And it all comes with legendary Celestion performance and dependability, delivering the bottom line night after night.



BL15-300X

15" 381mm	Ferrite	300 Watts	4 Ohm	96 dB
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This 15" steel bass speaker has industry leading engineering built in, together with signature Celestion tone that you can feel with every single note.



BN15-300X

15" 381mm	Neo	300 Watts	4 Ohm	96 dB
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BN15-300X has a lightweight magnet for increased portability and is purpose-built to provide 300-watt power handling and a rich, warm bass tone.



BN15-400X

15" 381mm	Neo	400 Watts	8 Ohm	95 dB
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With 400-watt of thunderous power handling capability, the lightweight neodymium magnet BN15-400X skilfully brings your low end to the forefront.



BN12-300S

12" 305mm	Neo	300 Watts	4/8 Ohm	99 dB
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12-inch bass speakers deliver an ideal combination of responsiveness and rock solid low end. This highly efficient, lightweight neodymium speaker is a strong performer whatever your rhythmic style. The BN12-300S delivers clear, well-balanced bass so you will be confident in your performance whether holding the line or punching through the mix.



PARTNERS IN TONE ADEN BUBECK

plays BN15-400X



GUITAR SPEAKER SPECIFICATIONS

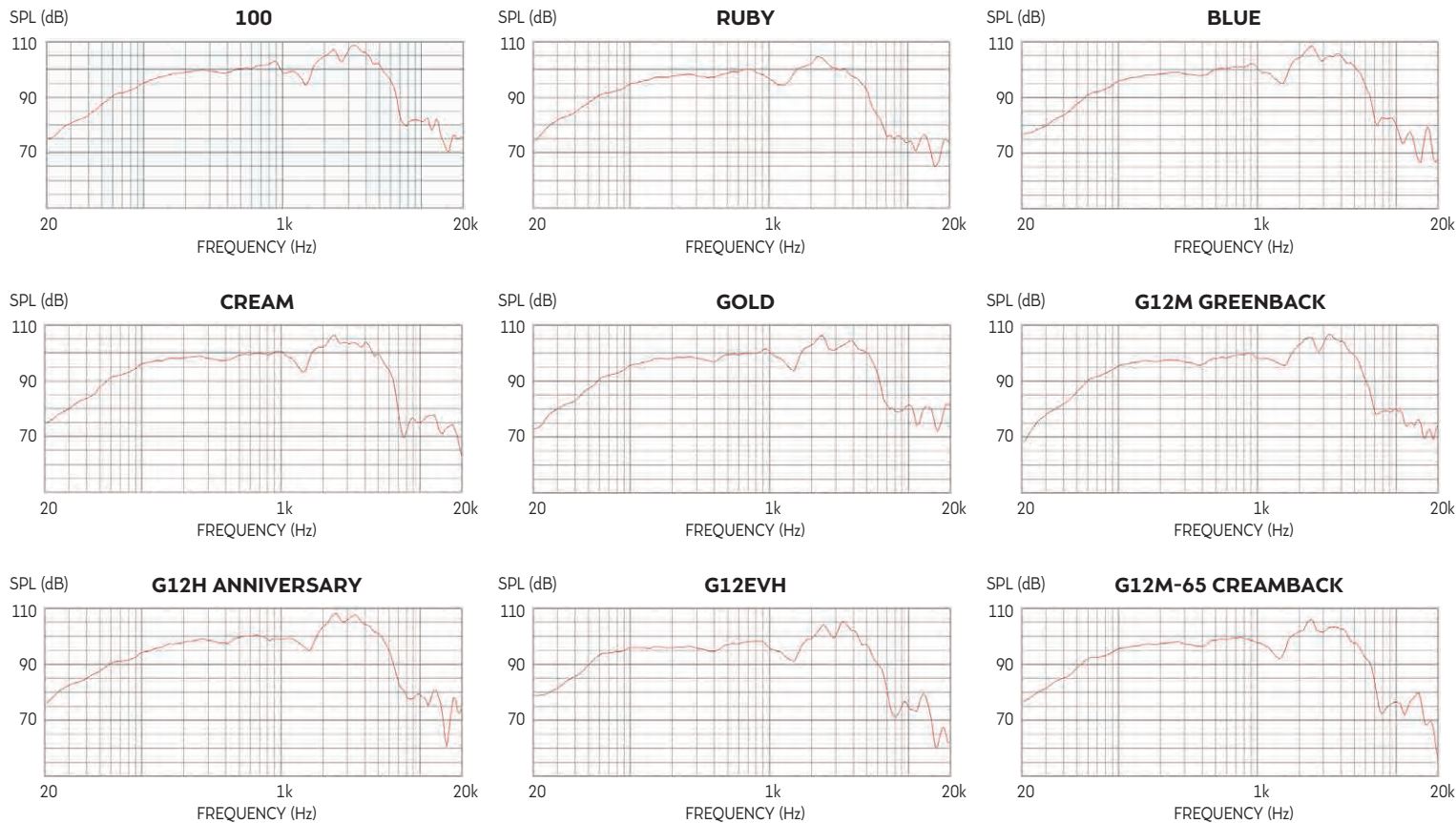


12"

	100	RUBY	BLUE	CREAM	GOLD	G12M GREENBACK	G12H ANNIVERSARY	G12EVH SIGNATURE	G12M-65 CREAMBACK
GENERAL SPECIFICATIONS									
Nominal Diameter	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm
Power Rating	30W	35W	15W	90W	50W	25W	30W	20W	65W
Nominal Impedance	8Ω & 16Ω	8Ω & 16Ω	8Ω & 15Ω	8Ω & 16Ω	8Ω & 15Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 15Ω	8Ω & 16Ω
Sensitivity	100dB	100dB	100dB	100dB	100dB	98dB	100dB	96dB	97dB
Voice Coil Diameter	1.75", 44mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm
Magnet Type	Alnico	Alnico	Alnico	Alnico	Alnico	Ceramic	Ceramic	Ceramic	Ceramic
Magnet Weight	n/a	n/a	n/a	n/a	n/a	35oz, 0.99kg	50oz, 1.42kg	35oz, 0.99kg	35oz, 0.99kg
Frequency Range	75-5000Hz	75-5000Hz	75-5000Hz	75-5000Hz	75-5000Hz	75-5000Hz	75-5000Hz	75-5000Hz	75-5000Hz
Resonance Frequency, Fs	75Hz	75Hz	75Hz	75Hz	75Hz	75Hz	85Hz	75Hz	75Hz
DC Resistance, Re	6.6Ω, 13.0Ω	6.7Ω & 13.1Ω	6.4Ω & 11.8Ω	6.7Ω & 13.1Ω	6.4Ω & 11.8Ω	6.7Ω & 13.1Ω	6.7Ω & 13.1Ω	6.57Ω & 12.13Ω	6.7Ω & 13.1Ω
MOUNTING INFORMATION									
Cut-out Diameter	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm
Diameter	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm
Magnet Structure Diameter	4.1", 104mm	5.0", 128mm	5.0", 128mm	5.0", 128mm	5.0", 128mm	5.9", 150mm	6.1", 156mm	5.9", 150mm	5.9", 150mm
Mounting Hole Dimensions	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø
Mounting Hole PCD	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm
Number of Mounting Holes	8	8	4	8	4	4	4	4	8
Chassis Depth*	3.63", 92mm	3.63", 92mm	3.63", 92mm	3.63", 92mm	3.63", 92mm	3.58", 91mm	3.79", 97mm	3.56", 91mm	3.56", 91mm
Magnet Depth	6.5", 55mm	2.87", 73mm	2.87", 73mm	2.87", 73mm	2.87", 73mm	1.52", 39mm	1.51", 38mm	1.54", 39mm	1.54", 39mm
Overall Depth	6.1", 155mm	6.5", 165mm	6.5", 165mm	6.5", 165mm	6.5", 165mm	5.1", 130mm	5.3", 135mm	5.1", 130mm	5.1", 130mm
Unit Weight	8.8lb, 4kg	9.3lb, 4.2kg	9.3lb, 4.2kg	9.3lb, 4.2kg	9.3lb, 4.2kg	7.9lb, 3.6kg	10.4lb, 4.7kg	7.9lb, 3.6kg	7.9lb, 3.6kg

* Including gasket

GUITAR SPEAKER FREQUENCY RESPONSE



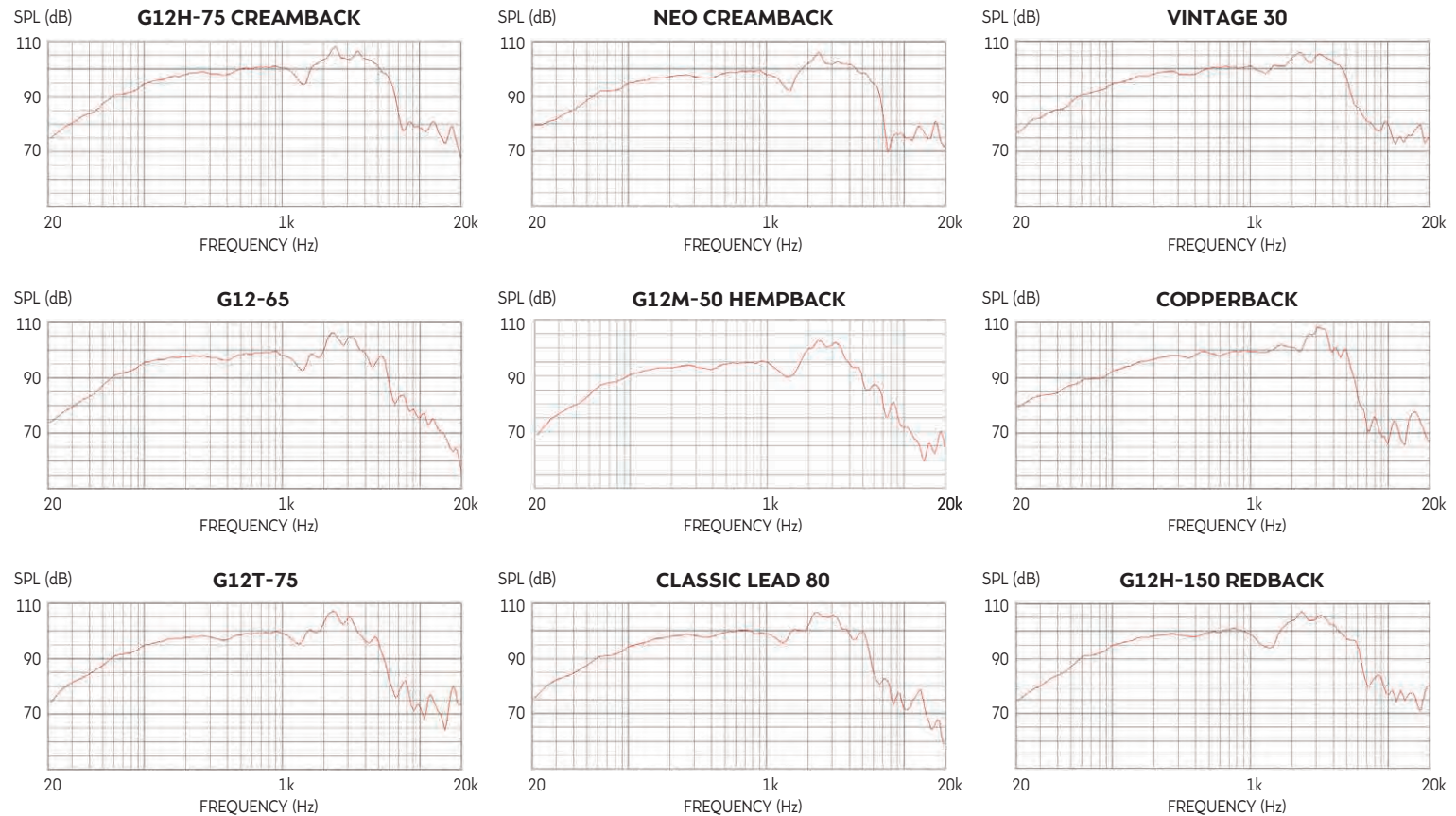
GUITAR SPEAKER SPECIFICATIONS



12"

	G12H-75 CREAMBACK	NEO CREAMBACK	VINTAGE 30	G12-65	G12M-50 HEMPBACK	COPPERBACK	G12T-75	CLASSIC LEAD 80	G12H-150 REDBACK
GENERAL SPECIFICATIONS									
Nominal Diameter	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm
Power Rating	75W	60W	60W	65W	50W	250W	75W	80W	150W
Nominal Impedance	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 15Ω	8Ω & 16Ω	4Ω, 8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω
Sensitivity	100dB	97dB	100dB	97dB	99dB	100dB	97dB	99dB	100dB
Voice Coil Diameter	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	2.5", 63mm	1.75", 44.5mm	1.75", 44.5mm	2", 50mm
Magnet Type	Ceramic	Neodymium	Ceramic	Ceramic	Ceramic	Neodymium	Ceramic	Ceramic	Ceramic
Magnet Weight	50oz, 1.42kg	n/a	50oz, 1.42kg	35oz, 0.99kg	35oz, 0.99kg	50oz, 1.42kg	35oz, 0.99kg	50oz, 1.42kg	50oz, 1.42kg
Frequency Range	70-5000Hz	75-5000Hz	70-5000Hz	80-5000Hz	75-5000Hz	70-5500Hz	80-5000Hz	80-5000Hz	70-5000Hz
Resonance Frequency, Fs	75Hz	75Hz	75Hz	85Hz	75Hz	55Hz	85Hz	85Hz	75Hz
DC Resistance, Re	6.37Ω & 12.5Ω	6.6Ω & 13.1Ω	7.3Ω & 12.9Ω	6.9Ω & 11.8Ω	6.17Ω & 12.95Ω	3.5Ω, 7.2Ω & 13.9Ω	6.77Ω & 12.9Ω	6.9Ω & 11.8Ω	6.45Ω & 12.54Ω
MOUNTING INFORMATION									
Cut-out Diameter	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm
Diameter	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm
Magnet Structure Diameter	6.6", 188mm	4.9", 124mm	6.1", 156mm	5.7", 145mm	5.9", 150mm	4.9", 125mm	5.7", 145mm	6.1", 156mm	6.6", 168mm
Mounting Hole Dimensions	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø
Mounting Hole PCD	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm
Number of Mounting Holes	8	8	4	4	8	8	4	4	8
Chassis Depth*	3.67", 94mm	3.64", 93mm	3.79", 97mm	3.67", 94mm	3.58", 91mm	3.83", 97mm	3.70", 94mm	3.79", 97mm	3.71", 95mm
Magnet Depth	1.73", 44mm	1.16", 30mm	1.51", 38mm	1.33", 34mm	1.52", 39mm	1.17", 30mm	1.30", 33mm	1.51", 38mm	1.69", 43mm
Overall Depth	5.4", 138mm	4.8", 122mm	5.3", 135mm	5.0", 128mm	5.1", 130mm	5", 127mm	5.0", 127mm	5.3", 135mm	5.4", 138mm
Unit Weight	10.4lb, 4.7kg	4.2lb, 1.9kg	10.4lb, 4.7kg	7.7lb, 3.5kg	7.9lb, 3.6kg	5lb, 2.3kg	7.7lb, 3.5kg	10.4lb, 4.7kg	10.4lb, 4.7kg

GUITAR SPEAKER FREQUENCY RESPONSE



GUITAR SPEAKER SPECIFICATIONS

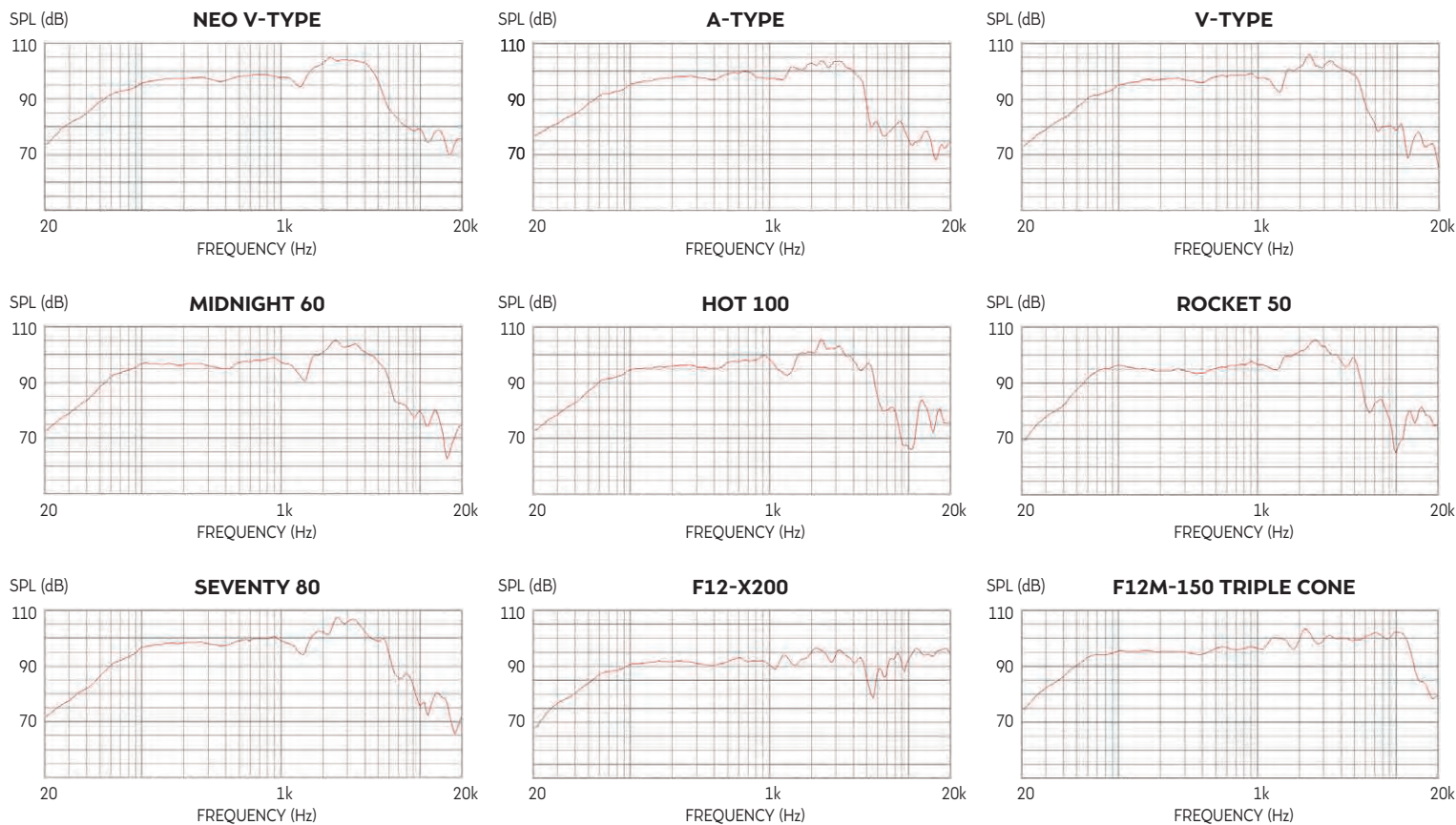


12"

	NEO V-TYPE	A-TYPE	V-TYPE	MIDNIGHT 60	HOT 100	ROCKET 50	SEVENTY 80	F12-X200	F12M-150 TRIPLE CONE
GENERAL SPECIFICATIONS									
Nominal Diameter	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm	12", 305mm
Power Rating	70W	50W	70W	60W	100W	50W	80W	200W	150W
Nominal Impedance	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	4Ω, 8Ω & 16Ω	8Ω	8Ω & 16Ω	8Ω	8Ω
Sensitivity	98dB	98dB	98dB	96dB	97dB	95dB	98dB	97dB	97dB
Voice Coil Diameter	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	2", 50.8mm	1.5", 38.1mm	1.75", 44.5mm	2", 50.8mm	2", 50.8mm
Magnet Type	Neodymium	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Magnet Weight	n/a	35oz, 0.99kg	31oz, 0.88kg	20oz, 0.6kg	35oz, 0.99kg	17oz, 0.48kg	31oz, 0.88kg		35oz, 0.9kg
Frequency Range	75-5000Hz	75-5000Hz	70-5000Hz	75-5000Hz	80-5000Hz	85-5000Hz	80-5000Hz	60-20000Hz	60-12000Hz
Resonance Frequency, Fs	75Hz	75Hz	75Hz	75Hz	86Hz	90Hz	85Hz	75Hz	70Hz
DC Resistance, Re	6.64Ω & 12.85Ω	6.2Ω & 12.7Ω	7.3Ω & 12.9Ω	6.82Ω & 13.12Ω	3.4Ω, 7.4Ω & 14.83Ω	6.74Ω & 12.44Ω	6.1Ω & 10.41Ω	5.91Ω	6.07Ω
MOUNTING INFORMATION									
Cut-out Diameter	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm	11.1", 283mm
Diameter	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm	12.2", 309mm
Magnet Structure Diameter	4.9", 124mm	5.7", 145mm	5.3", 134mm	4.5", 115mm	5.8", 148mm	3.9", 100mm	5.3", 134mm	6.7", 170mm	5.7", 145mm
Mounting Hole Dimensions	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.31", 7.9mm Ø
Mounting Hole PCD	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm	11.7", 297mm
Number of Mounting Holes	8	8	8	8	4	4	4	8	8
Chassis Depth*	3.7", 94mm	3.70", 94mm	3.70", 94mm	3.68", 94mm	3.60", 91mm	3.72", 95mm	3.48", 88mm	3.86", 98mm	3.7", 94mm
Magnet Depth	1.2", 28.5mm	1.30", 33mm	1.18", 30mm	1.02", 26mm	1.30", 33mm	1.08", 27mm	1.22", 31mm	2.64", 67mm	1.3", 33mm
Overall Depth	4.7", 120mm	5.0", 127mm	4.88", 124mm	4.7", 120mm	4.9", 124mm	4.8", 122mm	4.7", 119mm	6.5", 165mm	5", 127mm
Unit Weight	4.2lb, 1.9kg	7.7lb, 3.5kg	7.2lb, 3.3kg	5.5lb, 2.5kg	7.1lb, 3.2kg	4.4lb, 2.0kg	6.8lb, 3.1kg	9.1lb, 4.1kg	7.9lb, 3.6kg

* Including gasket

GUITAR SPEAKER FREQUENCY RESPONSE



GUITAR SPEAKER SPECIFICATIONS



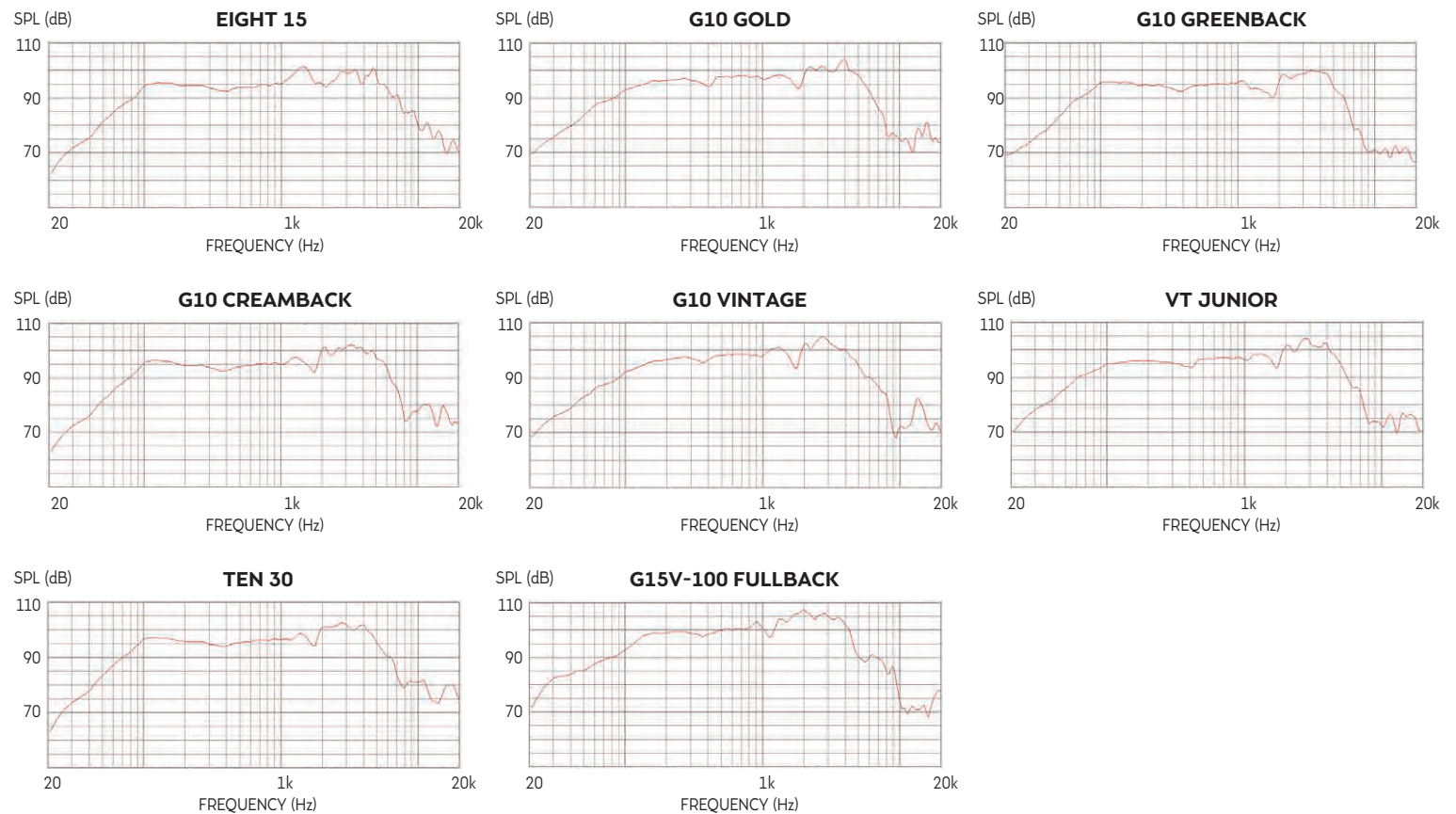
8"

10"

15"

	EIGHT 15	G10 GOLD	G10 GREENBACK	G10 CREAMBACK	G10 VINTAGE	VT JUNIOR	TEN 30	G15V-100 FULLBACK
GENERAL SPECIFICATIONS								
Nominal Diameter	8", 203mm	10", 254mm	10", 254mm	10", 254mm	10", 254mm	10", 254mm	10", 254mm	15", 381mm
Power Rating	20W	40W	30W	45W	60W	50W	30W	100W
Nominal Impedance	4Ω, 8Ω & 16Ω	8Ω & 15Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω	8Ω & 16Ω
Sensitivity	95dB	98dB	95dB	96dB	99dB	95dB	95dB	99dB
Voice Coil Diameter	1", 25mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.75", 44.5mm	1.25", 31.25mm	2", 50mm
Magnet Type	Ceramic	Alnico	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Magnet Weight	13oz, 0.37kg	n/a	20oz, 0.56kg	20oz, 0.56kg	31oz, 0.88kg	20oz, 0.56kg	16oz, 0.41kg	50oz, 1.42kg
Frequency Range	100-6000Hz	80-6000Hz	95-5500Hz	95-5500Hz	100-5500Hz	90-5500Hz	85-5500Hz	65-4000Hz
Resonance Frequency, Fs	120Hz	80Hz	98Hz	98Hz	115Hz	90Hz	93.9Hz	85Hz
DC Resistance, Re	2.63Ω, 6.55Ω & 12.88Ω	6.66Ω & 13.56Ω	6.4Ω & 12.05Ω	6.4Ω & 12.05Ω	7.47Ω & 12.33Ω	6.78Ω & 12.92Ω	6Ω & 11.07Ω	6.4Ω
MOUNTING INFORMATION								
Cut-out Diameter	7.2", 183mm	9.0", 229mm	9.0", 229mm	9.0", 229mm	9.0", 229mm	9.0", 229mm	9.0", 229mm	13.8", 351mm
Diameter	8.1", 205mm	10.1", 256mm	10.1", 256mm	10.1", 256mm	10.1", 256mm	10.1", 256mm	10.1", 256mm	15.2", 385mm
Magnet Structure Diameter	3.3", 85mm	4.7", 119mm	4.9", 124mm	4.9", 124mm	5.3", 134mm	4.5", 115mm	3.8", 96mm	6.1", 156mm
Mounting Hole Dimensions	0.19x0.31", 5x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.36x0.24", 9.2x7.9mm
Mounting Hole PCD	7.7", 195mm	9.6", 244mm	9.6", 244mm	9.6", 244mm	9.6", 244mm	9.6", 244mm	9.6", 244mm	14.6", 369mm
Number of Mounting Holes	4	8	8	8	4	8	8	8
Chassis Depth*	2.28", 58mm	2.87", 73	2.83", 72mm	2.86", 73mm	2.88", 73mm	2.64", 67mm	2.64", 67mm	4.58", 117mm
Magnet Depth	1.02", 26mm	2.43", 62mm	1.17", 30mm	1.14", 29mm	1.22", 31mm	1.02", 26mm	1.16", 30mm	1.42", 36mm
Overall Depth	3.30", 84mm	5.3", 135mm	4.0", 102mm	4.0", 102mm	4.1", 104mm	3.66", 93mm	3.8", 96mm	6.0", 153mm
Unit Weight	2.2lb, 1kg	6.0lb, 2.7kg	3.6lb, 1.7kg	3.6lb, 1.7kg	5.3lb, 2.4kg	3.5lb, 1.6kg	3.1lb, 1.4kg	10.6lb, 4.8kg

GUITAR SPEAKER FREQUENCY RESPONSE



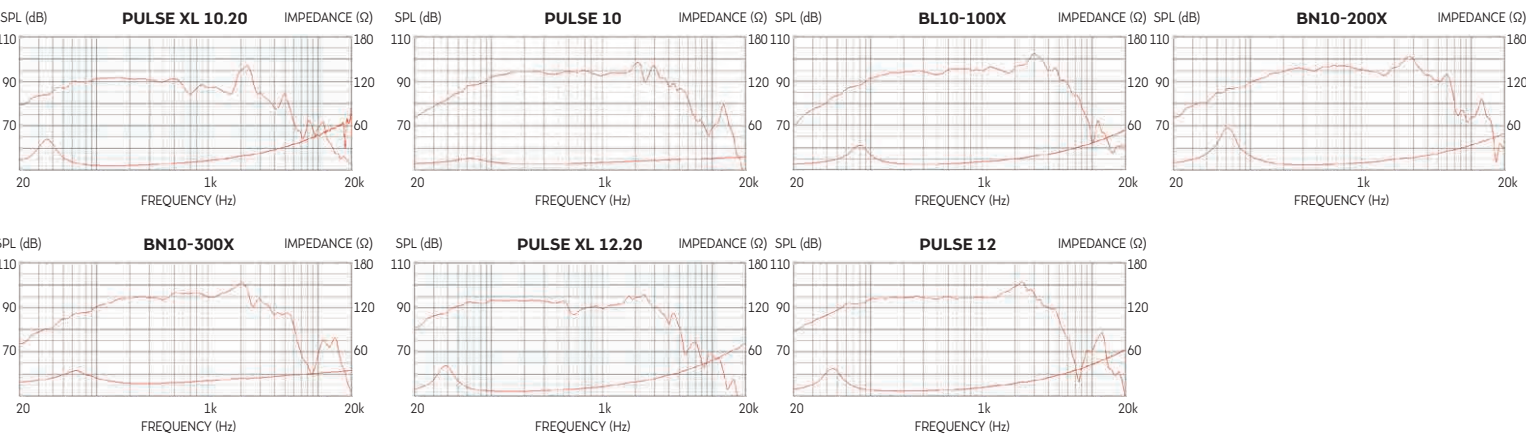
BASS SPEAKER SPECIFICATIONS



	10"					12"	
	PULSE XL 10.20	PULSE 10	BL10-100X	BN10-200X	BN10-300X	PULSE XL 12.20	PULSE 12
GENERAL SPECIFICATIONS							
Nominal Diameter	10", 254mm	10", 254mm	10", 254mm	10", 254mm	10", 254mm	12", 305mm	12", 304.8mm
Power Rating	400W	200W	100W	200W	300W	500W	200W
Nominal Impedance	8Ω	8Ω	8Ω	8Ω	4Ω	8Ω	8Ω
Sensitivity	92dB	94dB	94dB	96dB	96dB	94dB	94dB
Magnet Type	Ferrite	Ferrite	Ferrite	Neodymium	Neodymium	Ferrite	Ferrite
Voice Coil Diameter	2", 50mm	2", 50.8mm	1.5", 38.1mm	2", 50.8mm	2.5", 63.5mm	2", 50mm	2", 50.8mm
Coil Material	Copper	Copper	Copper	Copper	Copper	Copper	Copper
Cone Material	Cellulose	Kevlar loaded paper	Kevlar loaded paper	Kevlar loaded paper	Kevlar loaded paper	Cellulose	Kevlar loaded paper
Former Material	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide
Surround Material	Cloth-sealed, triple roll	Cloth-sealed	Cloth-sealed	Cloth-sealed	Cloth-sealed	Cloth-sealed, triple roll	Cloth-sealed
Frequency Range	40-2200Hz	45-3500Hz	45-3500Hz	45-3500Hz	40-2500Hz	35-2200Hz	45-3500Hz
Xmax	0.32", 8.25mm	0.15", 4mm	0.14", 3.5mm	0.15", 4mm	0.15", 4mm	0.32", 8.25mm	0.15", 4mm
Gap Depth	0.31", 8mm	0.31", 8mm	0.24", 6mm	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.31", 8mm
Voice Coil Winding Width	0.8", 20.5mm	0.62", 16mm	0.51", 13mm	0.62", 16mm	0.62", 16mm	0.8", 20.5mm	0.62", 16mm
SMALL SIGNAL PARAMETERS							
Sd	346.4cm ²	346.4 cm ²	346.4 cm ²	346.4 cm ²	346.4 cm ²	530.9cm ²	530.9cm ²
Fs	37.5Hz	66.3Hz	74.4Hz	50.7Hz	64Hz	35.1Hz	45Hz
Mms	39.79g	32.6g, 1.15oz	28.7g, 1.01oz	32.21g, 1.14oz	35.81g, 1.26oz	53.55g	47.6g, 1.68oz
Qms	6.678	3.92	2.88	3.67	3.33	6.087	2.74
Qes	0.493	0.501	0.653	0.297	0.5	0.548	0.49
Qts	0.459	0.444	0.532	0.274	0.43	0.503	0.42
Re	5.8Ω	5.85Ω	6.6Ω	5.9Ω	3.0Ω	5.83Ω	5.8Ω
Vas	76.92lt, 2.7cu.ft.	30lt, 1.06cu.ft.	25.1lt, 0.89cu.ft.	52lt, 1.84cu.ft.	29.2lt, 1.03cu.ft.	153.3l, 5.4cu.ft.	104.6lt, 3.7cu.ft.
Bl	10.51Tm	12.59Tm	11.98Tm	14.29Tm	9.39Tm	11.21Tm	12.71Tm
Cms	0.453mm/N	0.177mm/N	0.148mm/N	0.306mm/N	0.17mm/N	0.384mm/N	0.26mm/N
Rms	1.403kg/s	3.46kg/s	4.88kg/s	2.79kg/s	4.34kg/s	1.939kg/s	4.92kg/s
Le (at 1kHz)	1.2mH	0.75mH	0.73mH	0.63mH	0.32mH	1.31mH	1.0mH
MOUNTING INFORMATION							
Cut-out Diameter	9.18", 233.2mm	9", 229mm	9", 229mm	9", 229mm	9", 229mm	11.08", 281.4mm	11.1", 283mm
Diameter	10.08", 256mm	10.1", 256mm	10.1", 256mm	10.1", 256mm	10.1", 256mm	12.26", 311.4mm	12.2", 309mm
Mounting Hole Dimensions	0.25", 6.4mm Ø	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.2x0.3", 6x8mm	0.25", 6.4mm Ø	0.31", 7.9mm Ø
Mounting Hole PCD	9.66", 245.4mm	9.6", 245mm	9.6", 245mm	9.6", 245mm	9.6", 245mm	11.7", 297.5mm	11.7", 297mm
Number of Mounting Holes	8	4	4	8	4	8	4
Chassis Depth*	9.33", 79mm	3.06", 76mm	2.98", 76mm	3.02", 77mm	2.96", 76mm	10.74", 91mm	3.76", 96mm
Magnet Depth	1.42", 36mm	1.34", 34mm	1.22", 31mm	1.38", 35mm	1.44", 37mm	1.42", 36mm	1.34", 34mm
Overall Depth	4.25", 108mm	4.4", 110mm	4.2", 107mm	4.4", 112mm	4.4", 112mm	5.3", 135mm	5.1", 130mm
Unit Weight	8.8lb, 4kg	6.6lb, 3kg	5.3lb, 2.4kg	3.3lb, 1.5kg	3.5lb, 1.6kg	9lb, 4.1kg	7lb, 3.2kg

* Including gasket

BASS SPEAKER FREQUENCY RESPONSE

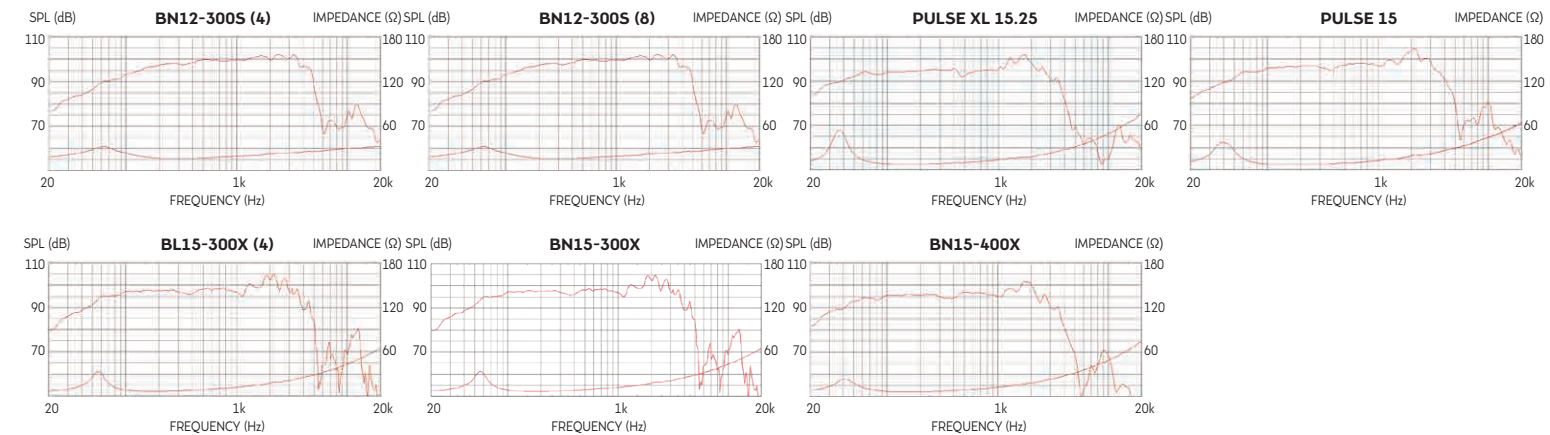


BASS SPEAKER SPECIFICATIONS



	15"							
	BN12-300S (4)	BN12-300S (8)	PULSE XL 15.25	PULSE 15	BL15-300X (4)	BN15-300X	BN15-400X	
GENERAL SPECIFICATIONS								
Nominal Diameter	12", 304.8mm	12", 304.8mm	15", 381mm	15", 381mm	15", 381mm	15", 381mm	15", 381mm	
Power Rating	300W	300W	700W	400W	300W	300W	400W	
Nominal Impedance	4Ω	8Ω	8Ω	8Ω	4Ω	4Ω	8Ω	
Sensitivity	99dB	99dB	97dB	96dB	96dB	96dB	95dB	
Magnet Type	Neodymium	Neodymium	Ferrite	Ferrite	Ferrite	Neodymium	Neodymium	
Voice Coil Diameter	2.5", 63.5mm	2.5", 63.5mm	2.5", 63.5mm	3", 76.2mm	2.5", 63.5mm	2.5", 63.5mm	3", 76.2mm	
Coil Material	Copper	Copper	Copper	Copper	Copper	Copper	Copper	
Cone Material	Kevlar loaded paper	Kevlar loaded paper	Cellulose	Kevlar loaded paper	Kevlar loaded paper	Kevlar loaded paper	Kevlar loaded paper	
Former Material	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide	
Surround Material	Cloth-sealed	Cloth-sealed	Cloth-sealed, triple roll	Cloth-sealed	Cloth-sealed	Cloth-sealed	Cloth-sealed	
Frequency Range	50-4000Hz	50-4000Hz	35-2100Hz	40-3500Hz	42-3500Hz	42-3500Hz	38-3000Hz	
Xmax	0.098", 2.5mm	0.098", 2.5mm	0.31", 8mm	0.18", 4.75mm	0.16", 4.25mm	0.15", 4mm	0.15", 4mm	
Gap Depth	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.31", 8mm	0.39", 10mm	
Voice Coil Winding Width	0.51", 13mm	0.51", 13mm	0.79", 20mm	0.68", 17.5mm	0.64", 16.5mm	0.62", 16mm	0.70", 18mm	
SMALL SIGNAL PARAMETERS								
Sd	530.9cm ²	530.9cm ²	855.3cm ²	855.3 cm ²	855.3 cm ²	855.3 cm ²	855.3 cm ²	
Fs	51.4Hz	62.1Hz	33.1Hz	35.1Hz	48.1Hz	57.8Hz	35.1Hz	
Mms	48.31g, 1.7oz	52.38g, 1.85oz	85.78g	83.32g, 2.94oz	83.39g, 2.91oz	84.24g, 2.97oz	83.98g, 2.96oz	
Qms	3.64	2.74	4.232	4.75	2.99	4.49	5.07	
Qes	0.395	0.361	0.525	0.474	1.004	1.1	0.588	
Qts	0.356	0.319	0.604	0.431	0.751	0.9	0.527	
Re	2.7Ω	5.1Ω	6.66Ω	5.7Ω	3.1Ω	3.1Ω	5.2Ω	
Vas	80.6lt, 2.85cu.ft.	50lt, 1.77cu.ft.	213.9l, 7.6cu.ft.	246.7lt, 8.7cu.ft.	137.7lt, 4.86cu.ft.	98.7lt, 3.48cu.ft.	253lt, 8.93cu.ft.	
Bl	10.37Tm	17.02Tm	13.88Tm	15.06Tm	8.83Tm	9.13Tm	12.9Tm	
Cms	0.198mm/N	0.125mm/N	0.21mm/N	0.24mm/N	0.133mm/N	0.09mm/N	0.244mm/N	
Rms	4.296kg/s	7.455kg/s	4.22kg/s	3.93kg/s	8.327kg/s	6.42kg/s	3.655kg/s	
Le (at 1kHz)	0.26mH	0.51mH	1.32mH	0.87mH	0.45mH	0.39mH	1.08mH	
MOUNTING INFORMATION								
Cut-out Diameter	11.1", 283mm	11.1", 283mm	13.9", 353mm	13.8", 351mm	13.8", 351mm	13.8", 351mm	13.8", 351mm	
Diameter	12.2", 309mm	12.2", 309mm	15.15", 385mm	15.2", 385mm	15.2", 385mm	15.2", 385mm	15.2", 385mm	
Mounting Hole Dimensions	0.31", 7.9mm Ø	0.31", 7.9mm Ø	0.25", 6.4mm Ø	0.36x0.24", 9.2x6.2mm	0.36x0.24", 9.2x6.2mm	0.36x0.24", 9.2x6.2mm	0.36x0.24", 9.2x6.2mm	
Mounting Hole PCD	11.7", 297mm	11.7", 297mm	14.5", 370mm	14.5", 369mm	14.5", 369mm	14.5", 369mm	14.5", 369mm	
Number of Mounting Holes	4	4	8	8	8	8	8	
Chassis Depth*	3.76", 96mm	3.76", 96mm	13.74", 116.3mm	4.61", 117mm	4.67", 116mm	4.56", 116mm	4.56", 116mm	
Magnet Depth	1.44", 37mm	1.44", 37mm	1.79", 46mm	1.79", 46mm	1.80", 46mm	1.44", 37mm	1.56", 40mm	
Overall Depth	5.2", 132mm	5.2", 132mm	6.6", 168mm	6.4", 162mm	6.47", 162mm	6", 152mm	6.12", 155mm	
Unit Weight	4.4lb, 2.0kg	4.4lb, 2.0kg	12lb, 5.4kg	10.8lb, 4.9kg	10.6lb, 4.8kg	5.1lb, 2.3kg	5.7lb, 2.6kg	

BASS SPEAKER FREQUENCY RESPONSE

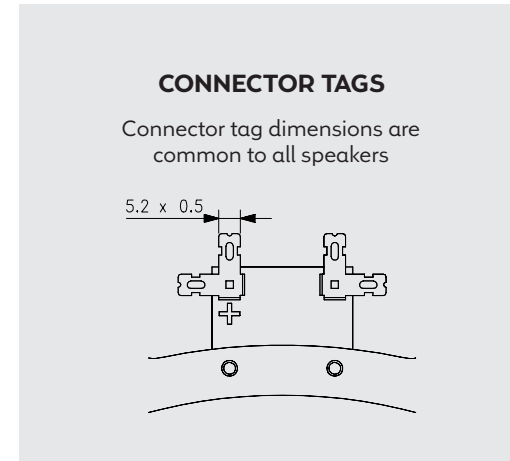
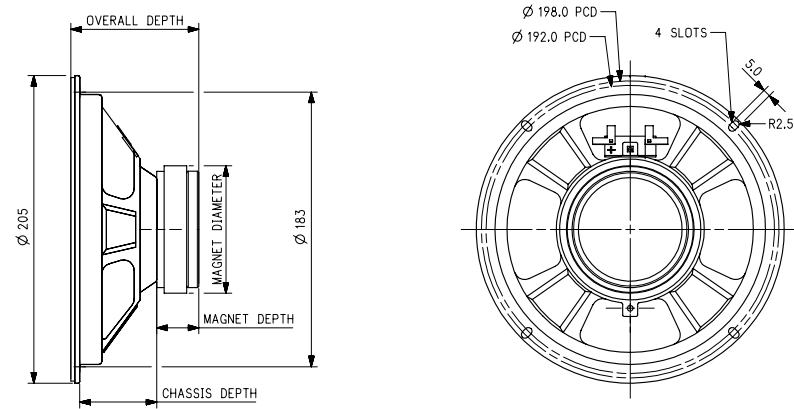


CHASSIS DIMENSIONS

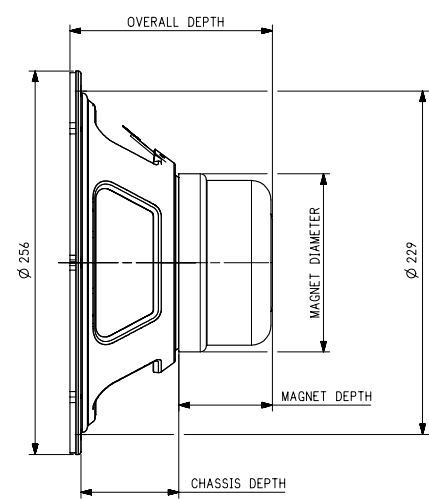


For illustrative purposes only. Refer to Mounting Information for complete, individual speaker dimensions. Measurements shown in mm, to convert to inches, divide by 25.

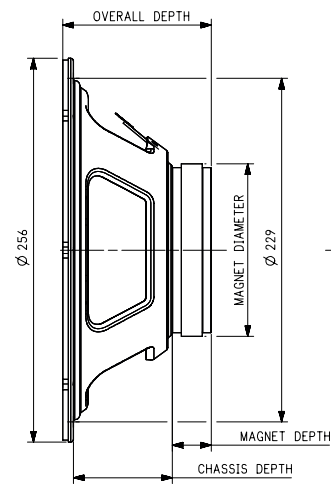
8" SPEAKERS



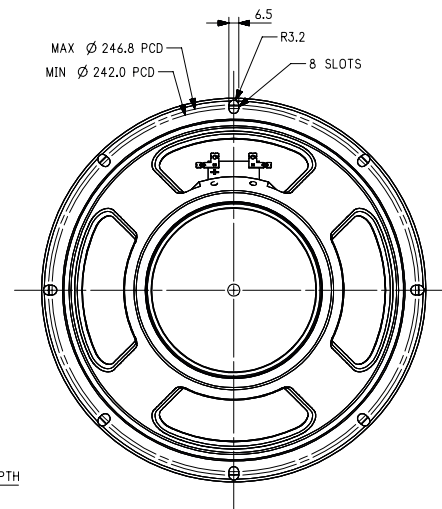
10" SPEAKERS



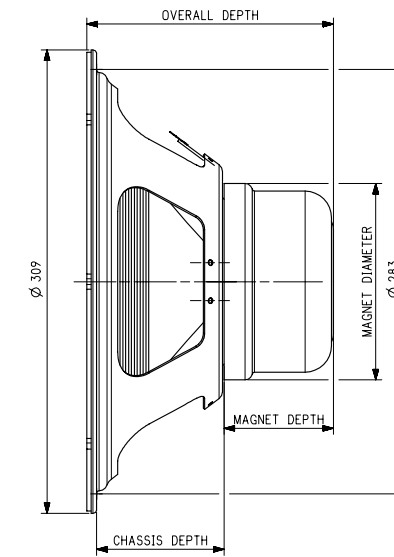
ALNICO MAGNET



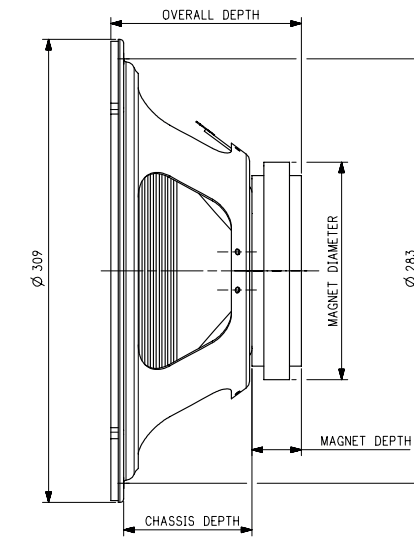
FERRITE/NEO MAGNET



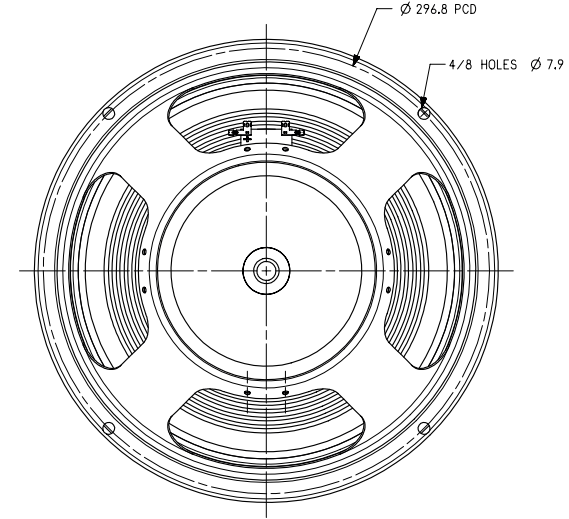
12" SPEAKERS



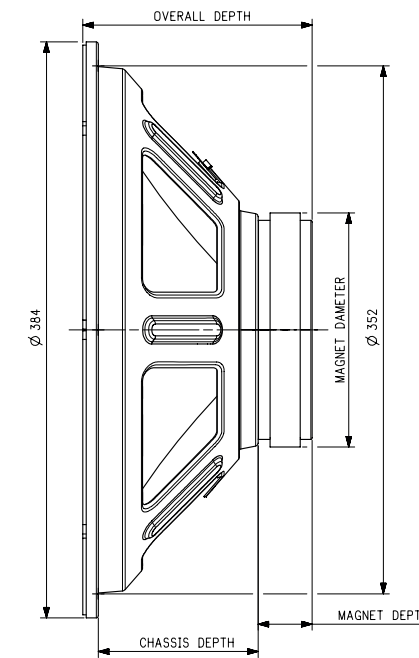
ALNICO MAGNET



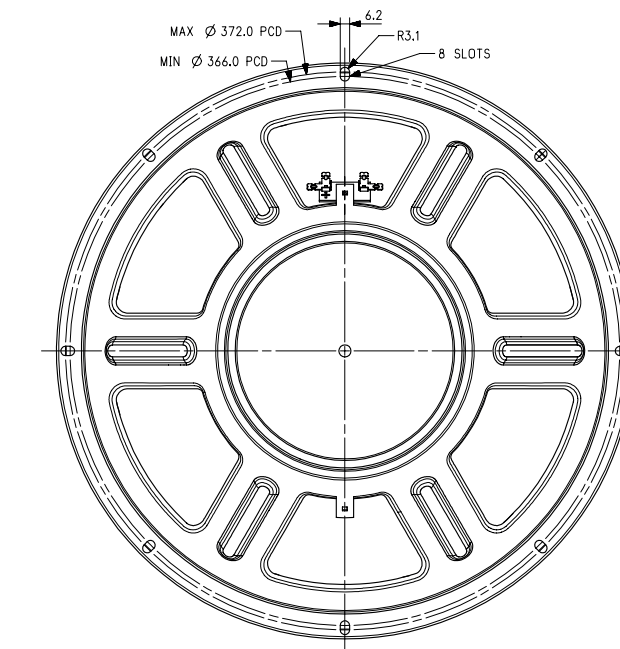
FERRITE/NEO MAGNET



15" SPEAKERS



FERRITE/NEO MAGNET



CHASSIS DIMENSIONS



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