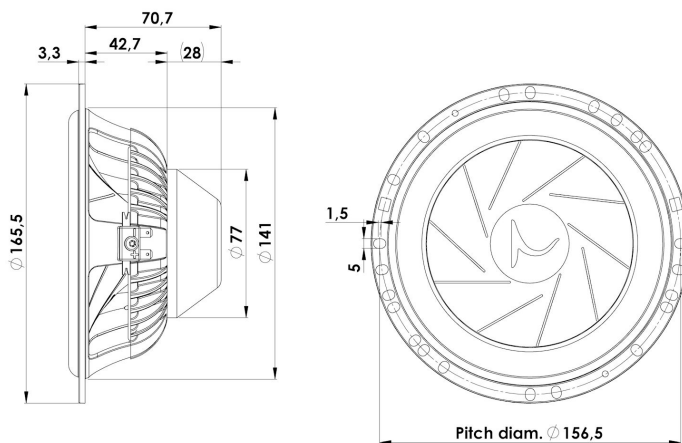




## WOOFER

# 16W/4531G06

Our SILVER SERIES are specially selected units from Scan-Speak's well-known home audio speakers. Which have been optimized for automotive use. This series enables audiophiles to experience in their vehicle the - TRUE TO LIVE - that they enjoy from their high-end home audio system.



### KEY FEATURES:

- Patented Symmetrical Drive Motor Design
- Roboust Die cast Alu Chassis
- Low Damping SBR Rubber Surround
- Low-Loss linear suspension
- Sliced Cone (Controls Cone Breakups)
- Compact powerful Neo magnet

#### T-S Parameters

|                               |                     |
|-------------------------------|---------------------|
| Resonance frequency [fs]      | 51 Hz               |
| Mechanical Q factor [Qms]     | 5.08                |
| Electrical Q factor [Qes]     | 0.66                |
| Total Q factor [Qts]          | 0.59                |
| Force factor [Bl]             | 5.18 Tm             |
| Mechanical resistance [Rms]   | 1.02 kg/s           |
| Moving mass [Mms]             | 16.3 g              |
| Compliance [Cms]              | 0.59 mm/N           |
| Effective diaph. diameter [D] | 125 mm              |
| Effective piston area [Sd]    | 123 cm <sup>2</sup> |
| Equivalent volume [Vas]       | 12.6 l              |
| Sensitivity (2.83V/1m)        | 88 dB               |
| Ratio Bl/√Re                  | 2.80 N/√W           |
| Ratio fs/Qts                  | 86 Hz               |

#### Notes:

IEC specs. refer to IEC 60268-5 third edition.  
All Scan-Speak products are RoHS compliant.  
Data are subject to change without notice.  
Datasheet updated: March 17, 2016.

#### Electrical Data

|                            |         |
|----------------------------|---------|
| Nominal impedance [Zn]     | 4 Ω     |
| Minimum impedance [Zmin]   | 3.95 Ω  |
| Maximum impedance [Zo]     | 32.63 Ω |
| DC resistance [Re]         | 3.46 Ω  |
| Voice coil inductance [Le] | 0.28 mH |

#### Power Handling

|                                |       |
|--------------------------------|-------|
| 100h RMS noise test (IEC 17.1) | 70 W  |
| Long-term max power (IEC 17.3) | 125 W |

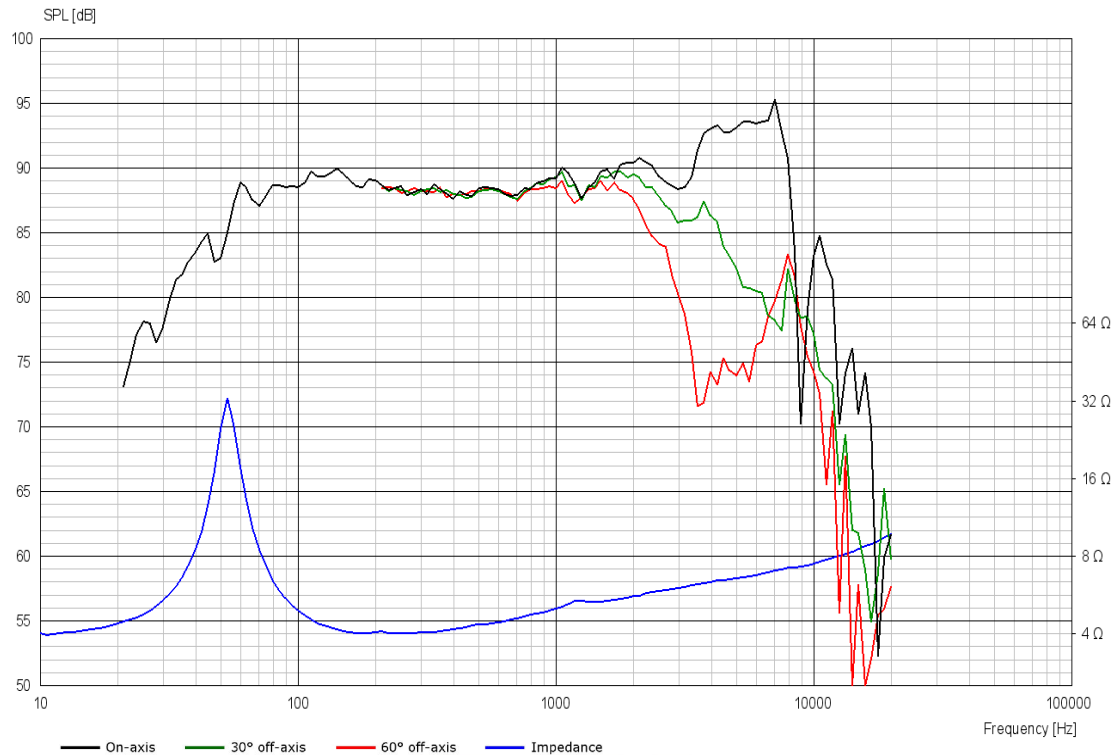
#### Voice Coil & Magnet Data

|                     |          |
|---------------------|----------|
| Voice coil diameter | 38 mm    |
| Voice coil height   | 17.5 mm  |
| Voice coil layers   | 2        |
| Height of gap       | 4 mm     |
| Linear excursion    | ± 6.5 mm |
| Max mech. excursion | ± 6.5 mm |
| Unit weight         | 0.8 kg   |

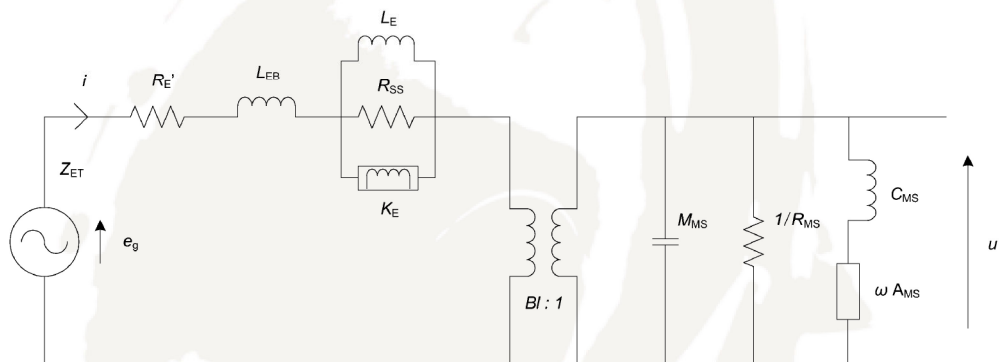


## WOOFER

## 16W/4531G06



## Advanced Parameters (Preliminary)



### Electrical data

|                               |            |
|-------------------------------|------------|
| Resistance [ $R_{E'}$ ]       | - $\Omega$ |
| Free inductance [ $L_{EB}$ ]  | - mH       |
| Bound inductance [ $L_E$ ]    | - mH       |
| Semi-inductance [ $K_E$ ]     | - SH       |
| Shunt resistance [ $R_{SS}$ ] | - $\Omega$ |

### Mechanical Data

|                                    |        |
|------------------------------------|--------|
| Force Factor [ $Bl$ ]              | - Tm   |
| Moving mass [ $M_{MS}$ ]           | - g    |
| Compliance [ $C_{MS}$ ]            | - mm/N |
| Mechanical resistance [ $R_{MS}$ ] | - kg/s |
| Admittance [ $A_{MS}$ ]            | - mm/N |