

		DAEX13CT-4	DAEX19CT-4	DAEX25FHE-4	DAEX25VT-4	DAEX25SHF-4	DAEX30HESF	DAEX32EP-4	DAEX32QM B-4
parameter	unit	from datasheet							
<b>Re</b>	ohm	3,6			4,2		3,8		
<b>Le</b>	mH	0,04		0,1	0,24	0,41	0,31	0,21	0,23
<b>fs (fixed magnet)</b>	Hz	650			230	365	300	240	680
<b>fs (fixed coil)</b>	Hz								
<b>Mms</b>	g	0,26		1,61	1,75	1,3		5,4	3
<b>Cms</b>	mm/N	0,2		0,3	0,3	0,1		8	0.018
<b>Rms</b>	kg/s								
<b>BL</b>	Tm	1,12		3,6					
<b>Weight</b>	g								
parameter	unit	measurements							
<b>Re</b>	ohm	4		4,6 / 4,5			3,8		
<b>Le</b>	mH	0,028		0,083 / 0,08			0,1		
<b>fs (fixed magnet)</b>	Hz	860		267 / 227			281		
<b>fs (fixed coil)</b>	Hz			28,5					
<b>Mms</b>	g	0,2		1,66 / 1,31			2,34		
<b>Cms</b>	mm/N	0,17		0,21 / 0,37			0,137		
<b>Rms</b>	kg/s	0,126		0,086 / 0,068	0,14 TBC		0,424		
<b>BL</b>	Tm	0,87	1,3	3,9 / 4,2	5		5,5	3,5	
<b>Weight</b>	g								

### Thiele-Small Parameters

**Measurement method**  
 Added mass

**Free Air Measurement**  
 4: 240628\_imp 10

**Added mass measurement**  
 5: 240628\_imp 11  
 Added mass (g): 17,220

**Manually Entered Values**  
 Voice Coil DC Resistance (ohm): 3,800  
 Effective Area (cm<sup>2</sup>): 176,71  
 Air Temperature (Celsius): 20  
 Air Pressure (mbar): 1013,25  
 Calculate Parameters  
 Write Parameters to File

**Motional Impedance (Ritter 3PC)**  
 R<sub>0</sub> (ohm): 84,81  
 C<sub>MES</sub> (uF): 77,7  
 L<sub>0</sub> (mH): 4,097  
 β: 0,0169  
 ω<sub>0</sub>: 2645,9

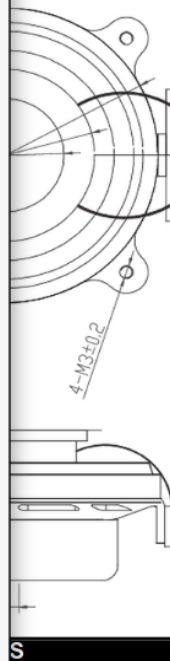
**Blocked Impedance (T-F)**  
 dR (ohm): -0,013  
 L<sub>EB</sub> (uH): 9,1  
 L<sub>E</sub> (mH): 0,215  
 R<sub>SS</sub> (ohm): 100000,00  
 K<sub>E</sub> (S-H): 0,0389

**Simplified Model Parameters**  
 R<sub>E</sub> 3,787 ohm L<sub>E</sub> 43,9 uH  
 R<sub>ES</sub> 71,22 ohm R<sub>2</sub> 7,15 ohm  
 C<sub>MES</sub> 77,7 uF L<sub>2</sub> 64,3 uH  
 L<sub>CES</sub> 4,14 mH R<sub>3</sub> 1,08 ohm  
 L<sub>3</sub> 74,8 uH

R<sub>E</sub> 3,787 ohm f<sub>s</sub> 280,7 Hz M<sub>MS</sub> 2,34 g  
 Z<sub>min</sub> 4,032 ohm Q<sub>MS</sub> 9,757 C<sub>MS</sub> 0,137 mm/N  
 f<sub>min</sub> 1 231 Hz Q<sub>ES</sub> 0,519 R<sub>MS</sub> 0,424 kg/s  
 f<sub>3</sub> 4 169 Hz Q<sub>TS</sub> 0,493 V<sub>AS</sub> 6,08 litres  
 L<sub>E</sub> (f<sub>3</sub>) 0,101 mH F<sub>TS</sub> 569,8 Hz Bl 5,493 Tm  
 Dd 15,00 cm L<sub>P</sub> 106,19 dB (1W/1m) Eta 25,28 %  
 Sd 176,7 cm<sup>2</sup> Added mass 17,220 g

Secondary measurement: 240628\_imp 11  
 Air temperature 20,0 C, pressure 1 013,25 mbar giving density 1,2041 kg/m<sup>3</sup>, c 343,2 m/s

## DAEX30HESF-4 High Efficiency Steered Flux Exciter with Shielding 30 mm Exciter 40W 4 Ohm

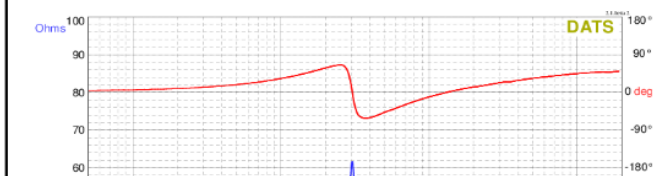


40 watts RMS  
 proprietary voice coil  
 ing holes

### PARAMETERS

Impedance	4 ohms
Re	3.8 ohms
Le	0.31 mH
Fs	300 Hz
Qms	N/A
Qes	N/A
Qts	N/A
Mms	N/A
Cms	N/A
Sd	N/A
Vd	N/A
BL	N/A
Vas	N/A
Xmax	N/A
VC Diameter	30 mm
SPL	N/A
RMS Power Handling	40 watts
Usable Frequency Range (Hz)	N/A

### IMPEDANCE/PHASE



### Thiele-Small Parameters

**Measurement method**  
 Added mass

**Free Air Measurement**  
 6: 240628\_DAEX13CT

**Added mass measurement**  
 7: 240628\_DAEX13CT\_mass  
 Added mass (g): 4,100

**Manually Entered Values**  
 Voice Coil DC Resistance (ohm): 3,600  
 Effective Area (cm<sup>2</sup>): 176,71  
 Air Temperature (Celsius): 20  
 Air Pressure (mbar): 1013,25

**Calculate Parameters**  
**Write Parameters to File**

**Motional Impedance (Ritter 3PC)**  
 R<sub>0</sub> (ohm): 8,01  
 C<sub>MES</sub> (uF): 256,2  
 L<sub>0</sub> (mH): 0,131  
 β: 0,0300  
 ω<sub>0</sub>: 8104,9

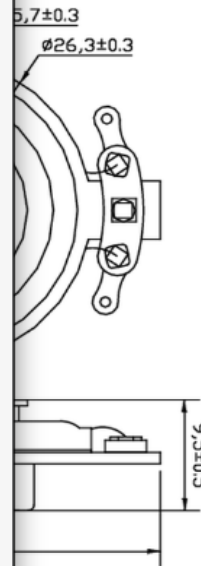
**Blocked Impedance (T-F)**  
 dR (ohm): 0,368  
 L<sub>EB</sub> (uH): 21,7  
 L<sub>E</sub> (mH): 0,018  
 R<sub>SS</sub> (ohm): 1,22  
 K<sub>E</sub> (S-H): 10,0000

**Simplified Model Parameters**  
 R<sub>E</sub> 3,968 ohm L<sub>E</sub> 21,7 uH  
 R<sub>ES</sub> 6,06 ohm R<sub>2</sub> 1,25 ohm  
 C<sub>MES</sub> 256,2 uF L<sub>2</sub> 16,4 uH  
 L<sub>CES</sub> 0,13 mH R<sub>3</sub> 0,05 ohm  
 L<sub>3</sub> 2 835 315,7 uH

**Secondary measurement: 240628\_DAEX13CT\_mass**  
 Air temperature 20.0 C. pressure 1 013.25 mbar air density 1.2041 kg/m<sup>3</sup>. c 343.2 m/s

## DAEX13CT-4 Coin Type 13mm Exciter 3W 4 Ohm

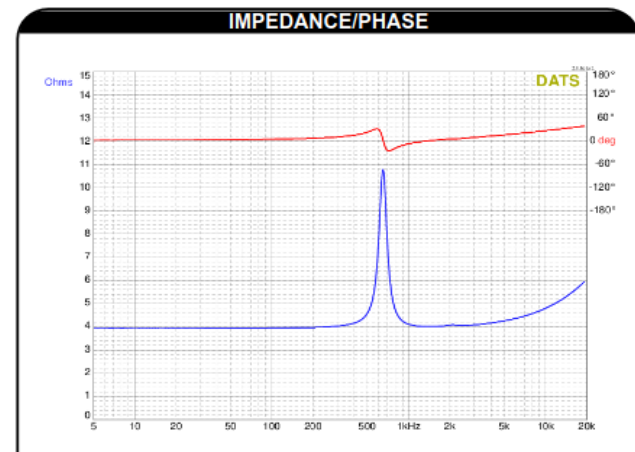
DAEX13CT-4

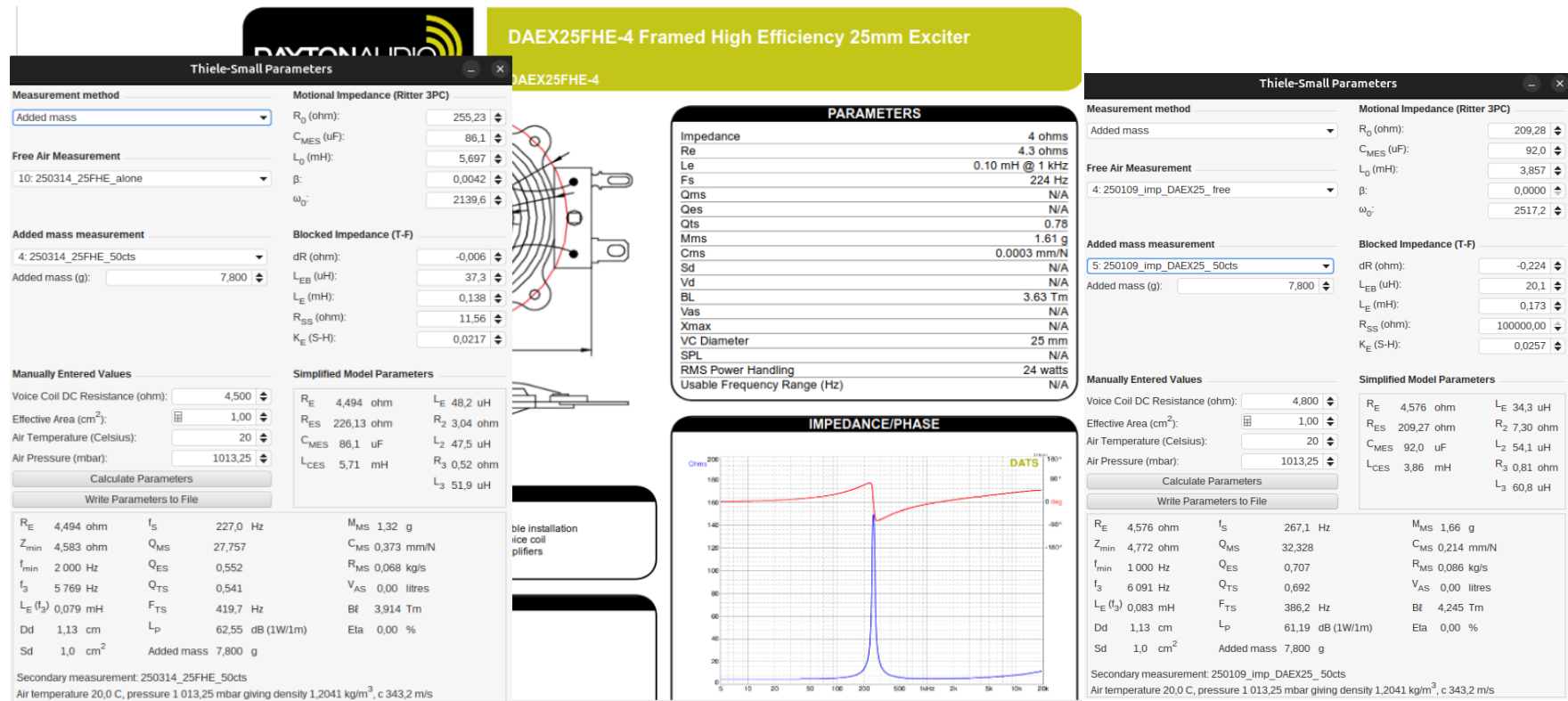


**ES**  
 meter, about 3/8" high  
 quick, secure installation  
 mass D amplifiers

**IONS**  
 audio

PARAMETERS	
Impedance	4 ohms
Re	3.6 ohms
Le	0.04 mH @ 1 kHz
Fs	650 Hz
Qms	N/A
Qes	N/A
Qts	3.25
Mms	0.26 g
Cms	0.0002 mm/N
Sd	N/A
Vd	N/A
BL	1.12 Tm
Vas	N/A
Xmax	N/A
VC Diameter	13 mm
SPL	N/A
RMS Power Handling	3 watts
Usable Frequency Range (Hz)	N/A

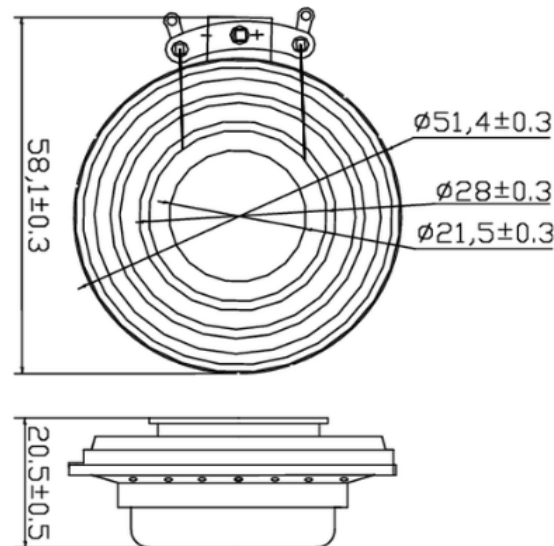






## DAEX25VT-4 Vented 25mm Exciter 20W 4 Ohm

DAEX25VT-4



### FEATURES

- Small size; just over 2" diameter, about 7/8" high
- Pre-applied 3M™ VHB™ adhesive for quick, secure installation
- Rare-earth neodymium motor and a proprietary voice coil
- 4 ohms impedance for use with small, Class D amplifiers
- 20 watt RMS power handling for high output

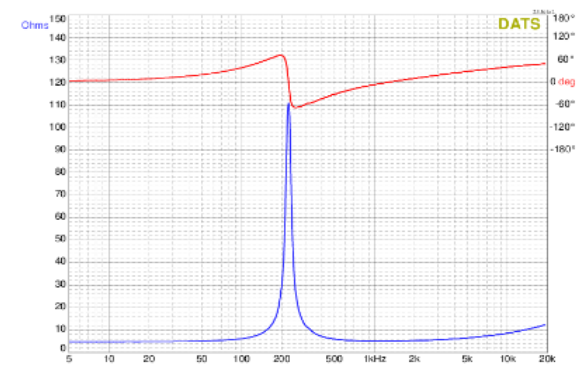
### APPLICATIONS

- Invisible home theater and multi-room audio
- Electronic gaming machines
- Advertising signage
- Point-of-purchase displays
- Multimedia exhibits
- Commercial distributed audio
- Kiosks
- Automotive audio
- Bathroom tubs and showers

### PARAMETERS

Impedance	4 ohms
Re	4.2 ohms
Le	0.24 mH @ 1 kHz
Fs	230 Hz
Qms	N/A
Qes	N/A
Qts	0.83
Mms	1.75 g
Cms	0.0003 mm/N
Sd	N/A
Vd	N/A
BL	3.86 Tm
Vas	N/A
Xmax	N/A
VC Diameter	25 mm
SPL	N/A
RMS Power Handling	20 watts
Usable Frequency Range (Hz)	N/A

### IMPEDANCE/PHASE



Measurement taken with transducer uncoupled facing upward.