

B15EX speaker with power supply field coil and SE 845 impedances measurements by EBA

RLC meters CEM DT 9935 40000 pts
 Multimeter CEM DT 9929 40000 pts
 Oscilloscope TEKTRONIC TDS 340
 Hz generator MCP S16631A

Speaker with field coil Electromagnetspeaker (Fertin) B15 EX
 Amplifier LYANG SE 845
 Power supply 0V - 15 V DC with regulation

DCR	DC resistor	Ohms
ESR	Equivalence seriale resistor	Ohms
RS	Seriale Z	Ohms
RP	Paralell Z	Ohms
LS	Serial inductance	Mh
LP	Paralell inductance	Mh
CS	Serial capacitance	µF
CP	Paralell capacitance	µF

		RS	RP	ESR	DCR	LS	LP	CS	CP
Amplifier only	100 Hz	3,79	560	3,79		76	74,25	34	34
	1000 Hz	32,82	1880	32,82		40	40	0,6	0,6

1,13

Power supply field coil only	100 Hz	0,26	0,77	0,26		0,056	0,089	431	284
	1000 Hz	0,37	35,92	0,37		5,88			426

733

Speaker only	0V 100 Hz	7,21	7,73	7,3		3,1	45	815	55,64 Pf
	0V 1000 Hz	12,27	20,31	12,79		1,58	3,99	16,01	6,33
	6V 100 Hz	7,7	7,69	7,6		1,98	0,073	1277	34,3
	6V 1000 Hz	12,48	19,7	13,05		1,52	4,12	16,73	6,15
	12 V 100 Hz	7,68	9,89	7,8		6,36	29,81	386	85,1
	12V 1000 Hz	12,47	19,7	13,12		1,48	4,15	17	6,1

6,63

Speaker with amplifier	0V 100 Hz	6,31	7,63	6,4		4,58	26,63	552,4	95,26
	0V 1000 Hz	13,18	20,12	13,5		1,53	4,38	16,5	5,78
	Without power supply 1000 Hz	13,05	20,2	13,43		1,53	4,39	16,48	5,83
	6V 100 Hz	7,71	7,71	7,9		0,288	540	8,17	5,15
	6V 1000 Hz	13,32	19,69	13,78		1,46	4,54	17,98	5,58
	12 V 100 Hz	8,98	9,7	9		4,05	54,26	626	46,33
	12V 1000 Hz	13,34	19,4	13,77		1,43	4,56	17,67	5,55

0,99

Peek noise 20 W on voice coil	AC intensity field coil en µA		0
	Variation of DC intensity field coil en µA and % for 2,43 A		1000 0,04%

1000 Hz Sinus signal power 10 w	AC intensity field coil en µA		0
	Variation of DC intensity field coil en µA and % for 2,43 A		0 0%