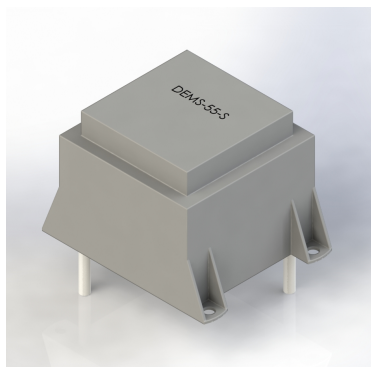


DEMS - SUPER MSS INDUCTORS



APPLICATIONS:

- power transformers (5kHz - 200kHz)
- interference suppression chokes (DC - 300kHz)
- energy storage chokes (DC - 300kHz)
- AC and DC filters
- flyback transformers
- PFC chokes
- EMI filters (DC - 1 MHz)
- soft and slow saturation at high current

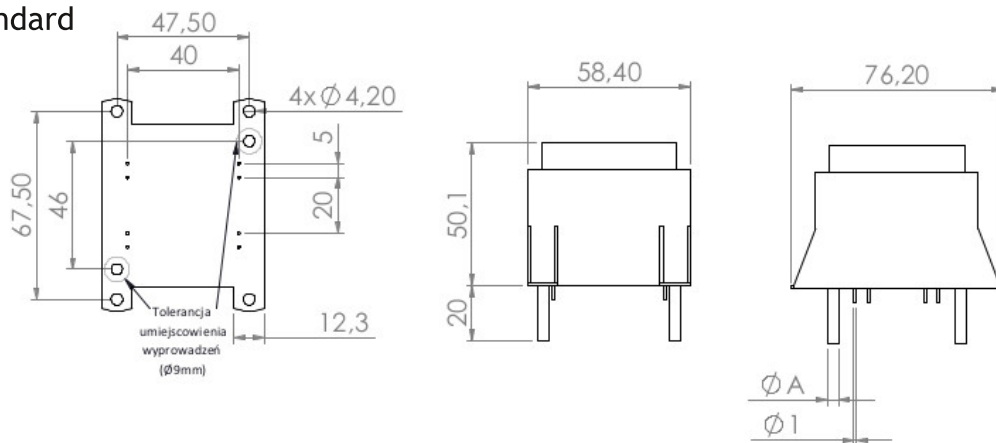
ORDERING CODE:

DEMS- 55 / 1,00 / 10 - S

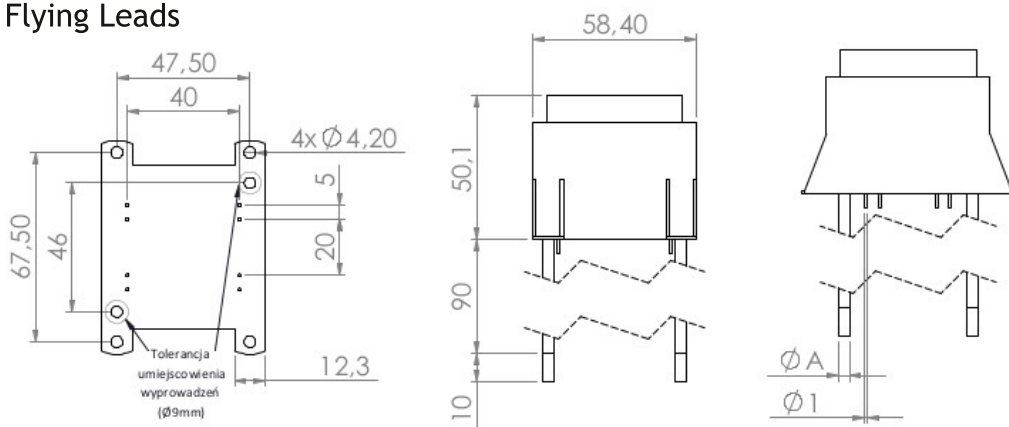
version: S- Standard, FL - Flying Leads
 rated current in Amps
 inductance in mH@ $I_{DC}=0A$
 core size
 product symbol

DIMENSIONS:

version: S- Standard



version: FL - Flying Leads



ELECTRICAL PROPERTIES:

Part number	L_{nom} [μH]	I_{nom} [A]	$L@I_{nom}$ [μH]	R_{dc} [Ω]	P_{cu} [W]	cross section [mm ²]	$\Delta t@I_{nom}$ [°C] *
DEMS-55/1,00/10	1000	10	685	0,136	13,6	0,9	80
DEMS-55/0,68/15	680	15	411	0,064	14,4	2,0	120
DEMS-55/0,47/20	470	20	267	0,050	20,0	2,0	100
DEMS-55/0,33/25	330	25	184	0,032	20,0	2,5	100
DEMS-55/0,22/30	220	30	123	0,021	18,9	3,0	85
DEMS-55/0,15/35	150	35	83	0,014	17,2	3,5	85
DEMS-55/0,10/40	100	40	61	0,011	17,6	4,0	80
DEMS-55/0,068/50	68	50	39	0,006	15,0	5,0	80
DEMS-55/0,047/60	47	60	44	0,004	14,4	6,0	90
DEMS-55/0,033/70	33	70	20	0,002	9,8	7,0	90
DEMS-55/0,022/75	22	75	14	0,003	16,9	7,5	95
DEMS-55/0,012/100	12	100	10	0,001	10,0	10,1	75

* winding losses only.

CHARACTERISTICS:

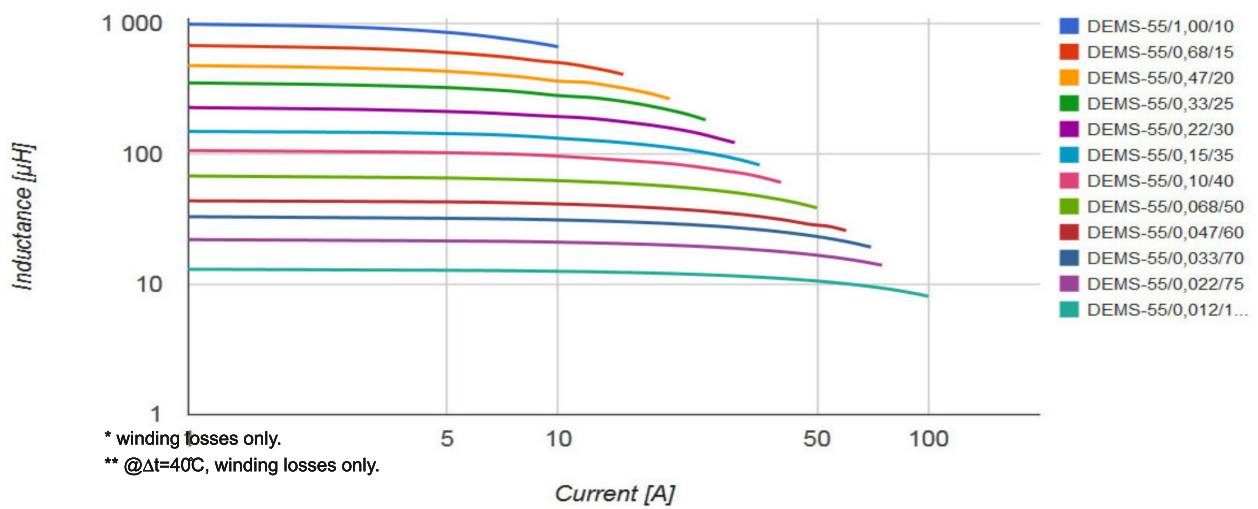


Figure 1 displays nine technical drawings of reinforcement bar layouts for a square slab, arranged in a 3x3 grid. Each drawing shows the placement of reinforcement bars (yellow circles) and the dimensions of the slab (59.8 mm x 59.8 mm) and the reinforcement bars (4.2 mm x 4.2 mm). The dimensions of the reinforcement bars are given in millimeters (mm). The drawings are arranged in a 3x3 grid, with the DEMS-55 ratio increasing from top-left to bottom-right. The FERLYSTER brand name is also present in each drawing.

Row	Column	DEMS-55 Ratio	FERLYSTER Brand
1	1	DEMS-55/1/10	FERLYSTER
1	2	DEMS-55/0.68/15	FERLYSTER
1	3	DEMS-55/0.47/20	FERLYSTER
2	1	DEMS-55/0.33/25	FERLYSTER
2	2	DEMS-55/0.22/30	FERLYSTER
2	3	DEMS-55/0.15/35	FERLYSTER
3	1	DEMS-55/0.1/40	FERLYSTER
3	2	DEMS-55/0.068/50	FERLYSTER
3	3	DEMS-55/0.047/60	FERLYSTER