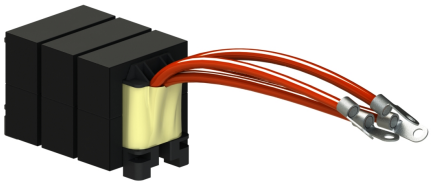
info@feryster.pl

DEMS 65X81 - Super MSS Inductors



APPLICATIONS:

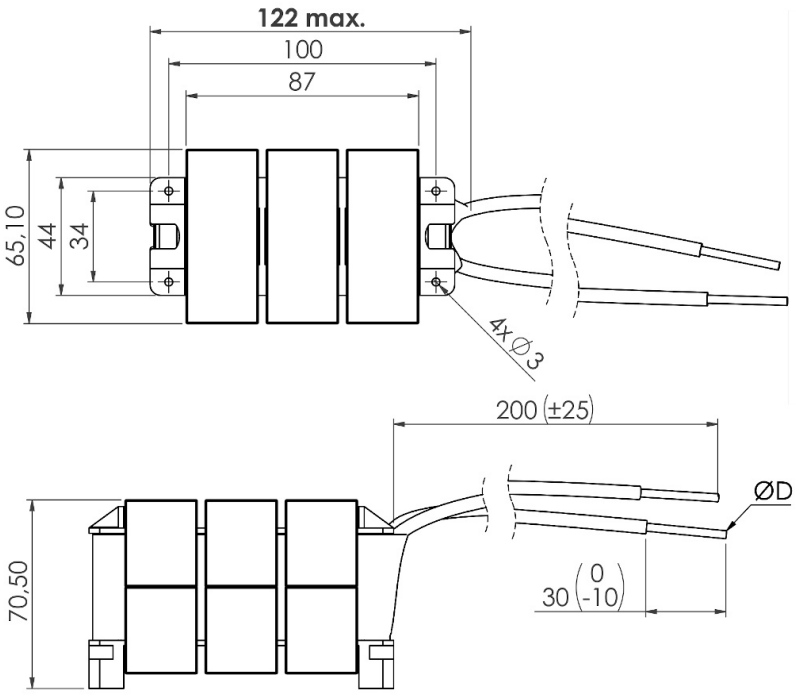
- output choke for forward, push-pull, half-bridge, full-bridge converters
- energy storage chokes (DC - 300kHz)
- AC and DC filters
- soft and slow saturation at high current

ORDERING CODE:

DEMS- 65X81- 10 / 7

- 7 — rated current in Amps
- 10 — inductance in mH@I_{DC}=0A
- 65X81 — core size
- DEMS — product symbol

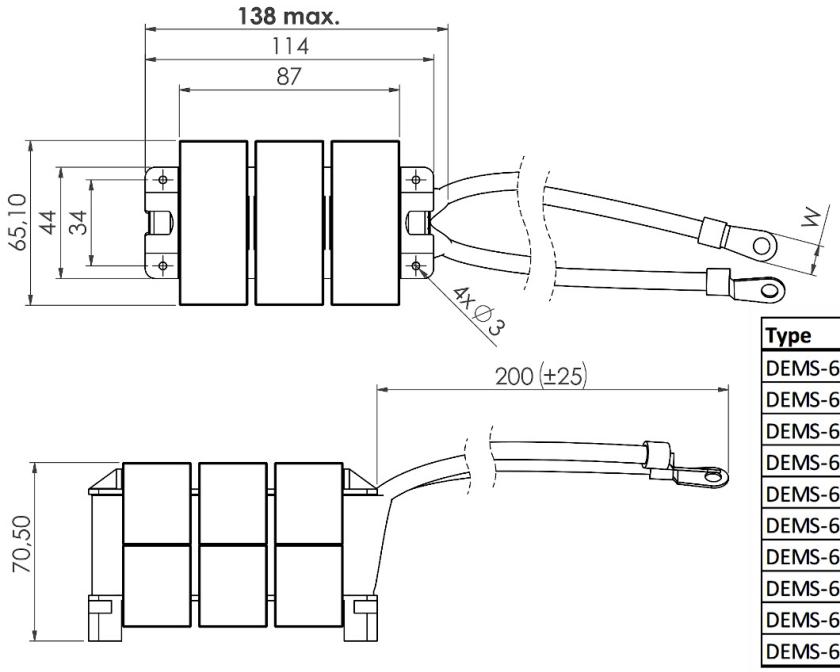
DIMENSIONS:



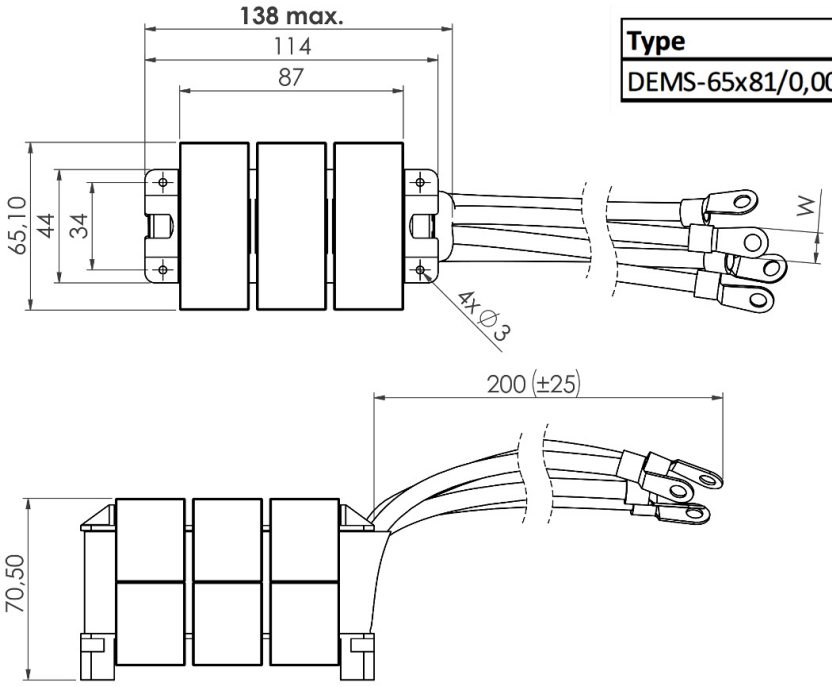
Type	ØD [mm]
DEMS-65x81/0,68/25	4,1
DEMS-65x81/1,0/20	3,4
DEMS-65x81/1,5/17	3,4
DEMS-65x81/2,2/14	2,8
DEMS-65x81/3,3/11	2,2
DEMS-65x81/4,7/10	2,2
DEMS-65x81/6,8/8	2,2
DEMS-65x81/10/7	2,2

version with litz wire

version with ring terminal



Type	Ring terminal	W [mm]
DEMS-65x81/0,01/200	M8	16
DEMS-65x81/0,015/170	M8	16
DEMS-65x81/0,022/150	M8	16
DEMS-65x81/0,033/120	M8	16
DEMS-65x81/0,068/80	M8	16
DEMS-65x81/0,1/65	M8	14
DEMS-65x81/0,15/56	M8	14
DEMS-65x81/0,22/42	M8	14
DEMS-65x81/0,33/33	M8	14
DEMS-65x81/0,47/30	M8	14



Type	Ring terminal	W [mm]
DEMS-65x81/0,002/410	M8	18

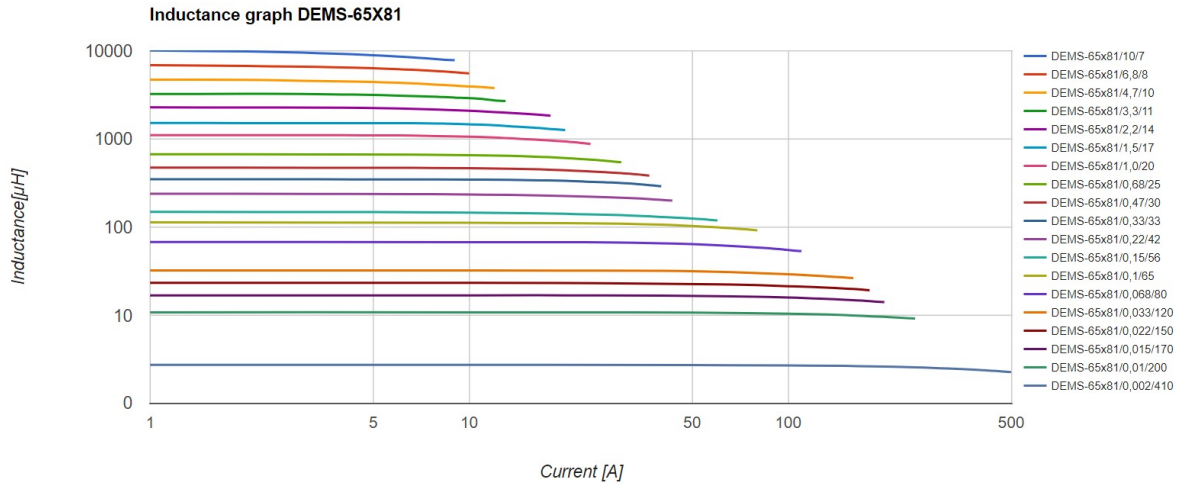
version with ring terminal

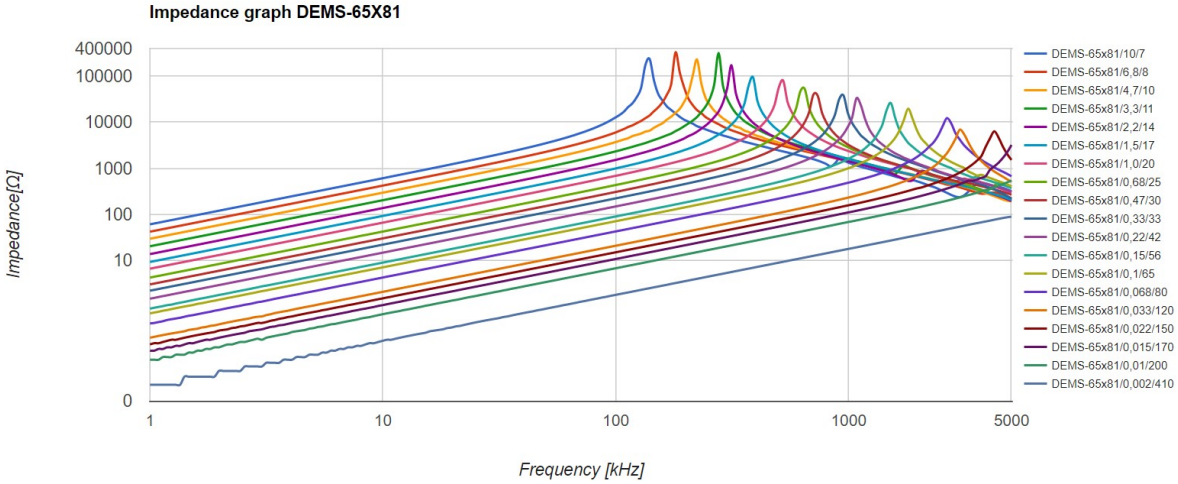
ELECTRICAL PROPERTIES:

Part number	L_{nom} [µH]	I_{nom} [A]	RDC [Ω]	$\Delta T@I_{nom}$ [°C]*	I_{max}@ [A]**
DEMS-65X81/0,002/410	7	410	0,0003	75	290
DEMS-65X81/0,010/200	10	200	0,0010	99	137
DEMS-65X81/0,015/170	15	170	0,0012	89	120
DEMS-65X81/0,022/150	22	150	0,0016	95	114
DEMS-65X81/0,033/120	33	120	0,0022	79	95
DEMS-65X81/0,068/80	68	80	0,0043	84	56
DEMS-65X81/0,10/65	100	65	0,0072	93	45
DEMS-65X81/0,15/56	150	56	0,009	84	40
DEMS-65X81/0,22/42	220	42	0,014	75	29
DEMS-65X81/0,33/33	330	33	0,024	105	23
DEMS-65X81/0,47/30	470	30	0,028	86	21,5
DEMS-65X81/0,68/25	680	25	0,040	83	18,5
DEMS-65X81/1,0/20	1000	20	0,062	95	13,5
DEMS-65X81/1,5/17	1500	17	0,079	93	12,0
DEMS-65X81/2,2/14	2200	14	0,120	89	10,0
DEMS-65X81/3,3/11	3300	11	0,224	104	7,0
DEMS-65X81/4,7/10	4700	10	0,267	75	7,0
DEMS-65X81/6,8/8	6800	8	0,382	86	5,5
DEMS-65X81/10/7	10000	7	0,48	70	5,0

* winding losses only.
** @Δt=40℃, winding losses only.

CHARACTERITICS:




Impedance graph DEMS-65X81
400000
100000
10000
1000
100
10
0
Impedance[Ω]
1
10
100
1000
5000
Frequency [kHz]
DEMS-65x81/10/7
DEMS-65x81/6,8/8
DEMS-65x81/4,7/10
DEMS-65x81/3,3/11
DEMS-65x81/2,2/14
DEMS-65x81/1,5/17
DEMS-65x81/1,0/20
DEMS-65x81/0,68/25
DEMS-65x81/0,47/30
DEMS-65x81/0,33/33
DEMS-65x81/0,22/42
DEMS-65x81/0,15/56
DEMS-65x81/0,1/65
DEMS-65x81/0,068/80
DEMS-65x81/0,033/120
DEMS-65x81/0,022/150
DEMS-65x81/0,015/170
DEMS-65x81/0,01/200
DEMS-65x81/0,002/410