

产 品 手 册

PRODUCT MANUAL

High power inductor (大功率电感选型表)

Manufacturer: CHSHENYANG

If You Have Any Questions, Please Contact Your Dealer;

The Seller Holds the "CHSHENYANG" Agent or Sales Certificate;

Product Customization Is Acceptable;

Product Description

The products are used in the field of electronic and electrical technology, and can be used in the electronic and electrical industry: automotive electronics, household appliances, industrial equipment, photovoltaic, military, medical and other products can be widely used, and the products have undergone strict reliability testing.



一、Control of hazardous substances (In line with EU standards)

1、RoHS; 2、Halogen; 3、REACH; 4、SVHC;

二、Product performance (Reference parameter table)

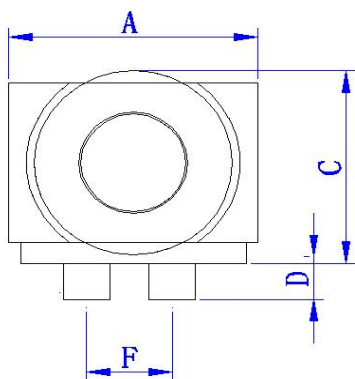
1、Temperature: Class F; 2、Voltage: AC1000; 3、DC-Bace: Parameter list
4、Insulation resistance:DC1000V, 10s, 1GΩ;

三、Reliability experiment test (AEC-Q200)

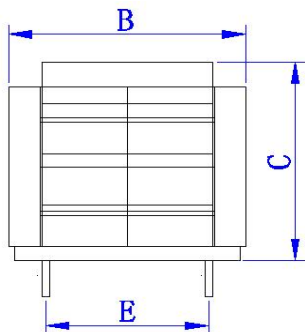
- 1、Electrical performance (Specification)
- 2、High Temperature Exposure (125°C, 1000H)
- 3、Temperature Cycling (-40~125°C, Every 30minutes)
- 4、Biased Humidity (85°C 85%RH, 1000H)
- 5、High Temperature Operation Life Test (125°C, 1000H, Rating Current)
- 6、External Visual (Specification)
- 7、Physical Dimension (Specification)
- 8、Terminal Strength (17.7N, 60s)
- 9、Resistance to Solvents (The solvent, Brush 2-3 times)
- 10、Mechanical Shock (100G, 6ms, 3 axes and 6 directions, 3 times)
- 11、Resistance to Soldering Heat (260°C, 10S, 0.5inch)
- 12、Vibration (10HZ-2000HZ-10HZ, 5G, 4H, 3 Directions.)
- 13、ESD (6KV Air discharge)
- 14、Solderability (8H*155°C, 235°C, 5s, >95%)
- 15、Flammability (UL report)
- 16、Board Flex ((D) x=2 mm, 60+5S)

产品尺寸图

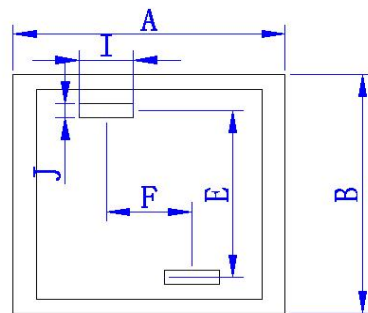
MnZn/Sendust/Si-Fe Inductance -- Product size



正视图
Front View



侧视图
Side View



PCB孔/俯视图
Foot hole size

NO.	A (max)	B (max)	C (max)	D (± 0.5)	E (± 0.3)	F (± 0.3)	I (± 0.3)	J (± 0.3)	Weight (g)
P2020	22	22	19	3.50	12.80	4.90	3.80	1.20	0.00
P2625	27	26	24	3.50	15.20	5.30	4.30	1.80	0.00
P3230	33	33	29	3.50	18.60	7.20	6.30	1.90	0.00
P4040	42	42	36	4.00	27.00	10.30	8.30	2.00	0.00
P5050	51	52	44	4.00	33.60	12.40	10.30	2.40	0.00
S2014	22	22	19	3.50	12.80	4.90	3.80	1.20	0.00
S2619	28	26	24	3.50	15.20	5.30	4.30	1.80	0.00
S3222	33	32	29	3.50	18.60	7.20	6.30	1.90	0.00
S4128	43	42	37	4.00	27.00	10.30	8.30	2.00	0.00
S5032	51	51	44	4.00	33.60	12.40	10.30	2.40	0.00
F2014	22	22	19	3.50	12.80	4.90	3.80	1.20	0.00
F2619	28	26	24	3.50	15.20	5.30	4.30	1.80	0.00
F3222	33	32	29	3.50	18.60	7.20	6.30	1.90	0.00
F4128	43	42	37	4.00	27.00	10.30	8.30	2.00	0.00
F5032	51	51	44	4.00	33.60	12.40	10.30	2.40	0.00

MnZn Selectable（铁氧体选型表）

Part No	Model（uH）	Rated（A） Max（A）	DC-Bace（10K）		Rise Temp （℃）	DCR （mΩ）	Wire Area	Le	H-DC	Remarks
			RMS（@A）	L（±15%）						
EQM-DM001	P2020-10A-7UH	10A-20A	0	7.10	0	3.8	2.8	5.32	0	
			10	7.35	14			5.32	33	
			15	7.39	32			5.32	50	
			20	7.45	57			5.32	66	
EQM-DM002	P2020-10A-11UH	10A-20A	0	10.60	0	3.8	2.8	5.32	0	
			10	10.94	13			5.32	33	
			15	10.96	28			5.32	50	
			20	10.96	51			5.32	66	
EQM-DM003	P2020-10A-17UH	10A-20A	0	16.10	0	3.8	2.8	5.32	0	
			10	16.34	14			5.32	33	
			15	16.12	30			5.32	50	
			20	10.01	54			5.32	66	
EQM-DM004	P2625-20A-5UH	20A-40A	0	4.90	0	1.6	5.6	6.39	0	
			20	5.26	17			6.39	35	
			30	5.27	33			6.39	53	
			40	5.28	50			6.39	71	
EQM-DM005	P2625-20A-8UH	20A-40A	0	8.47	0	1.6	5.6	6.39	0	
			20	8.53	16			6.39	35	
			30	8.48	32			6.39	53	
			40	8.01	52			6.39	71	
EQM-DM006	P2625-20A-11UH	20A-40A	0	10.85	0	1.6	5.6	6.39	0	
			20	10.79	16			6.39	35	
			30	9.64	32			6.39	53	
			40	3.18	54			6.39	71	

MnZn Selectable（铁氧体选型表）

Part No	Model（uH）	Rated（A） Max（A）	DC-Bace（10K）		Rise Temp （℃）	DCR （mΩ）	Wire Area	Le	H-DC	Remarks
			RMS（@A）	L（±15%）						
EQM-DM007	P3230-30A-9UH	30A-60A	0	9.40	0	1.7	8.4	7.99	0	
			30	9.64	26			7.99	57	
			45	9.53	55			7.99	85	
			60	3.32	98			7.99	114	
EQM-DM008	P3230-30A-14UH	30A-60A	0	14.13	0	1.7	8.4	7.99	0	
			30	14.06	22			7.99	57	
			45	11.90	46			7.99	85	
			60	2.28	92			7.99	114	
EQM-DM009	P4040-40A-17UH	40A-80A	0	17.40	0	2.0	12	11.52	0	
			40	17.94	36			11.52	74	
			60	17.54	78			11.52	112	
			80	17.48	53			11.52	149	
EQM-DM010	P5050-60A-15UH	60A-120A	0	15.80	0	1.2	20	13.34	0	
			60	15.50	38			13.34	79	
			90	10.30	45			13.34	106	
			120	4.00	65			13.34	159	

Sendust Selectable（铁硅铝选型表）

Part No	Model（uH）	Rated（A） Max（A）	DC-Bace（10K）		Rise Temp （℃）	DCR （mΩ）	Wire Area	Le	H-DC	Rema rks
			RMS（@A）	L（±15%）						
EQS-DM001	S2014-10A-7UH	10A-20A	0	7.2	0	3.8	2.8	0°	5.32	
			10	7.0	18			35°	5.32	
			15	6.8	28			57°	5.32	
			20	6.6	42			62°	5.32	
EQS-DM002	S2014-10A-11UH	10A-20A	0	11.0	0	3.9	2.8	0°	5.32	
			10	11.7	13			35°	5.32	
			15	10.4	24			57°	5.32	
			20	10.1	44			62°	5.32	
EQS-DM003	S2014-10A-17UH	10A-20A	0	16.9	0	3.9	2.8	0°	5.32	
			10	15.6	14			35°	5.32	
			15	14.5	25			57°	5.32	
			20	13.3	44			62°	5.32	
EQS-DM004	S2619-20A-5UH	20A-40A	0	4.7	0	1.6	5.6	0°	6.39	
			20	4.6	16			37°	6.39	
			30	4.4	32			58°	6.39	
			40	4.3	58			63°	6.39	
EQS-DM005	S2619-20A-8UH	20A-40A	0	7.8	0	1.6	5.6	0°	6.39	
			20	7.3	16			37°	6.39	
			30	6.8	28			58°	6.39	
			40	6.2	50			63°	6.39	
EQS-DM006	S2619-20A-11UH	20A-40A	0	11.8	0	1.6	5.6	0°	6.39	
			20	9.6	16			37°	6.39	
			30	8.1	30			58°	6.39	
			40	6.8	52			63°	6.39	

Sendust Selectable（铁硅铝选型表）

Part No	Model（uH）	Rated（A） Max（A）	DC-Bace（10K）		Rise Temp （℃）	DCR （mΩ）	Wire Area	Le	H-DC	Rem arks
			RMS（@A）	L（±15%）						
EQS-DM007	S3222-30A-9UH	30A-60A	0	8.5	0	1.6	8.4	0°	7.99	
			30	8.0	12			53°	7.99	
			45	7.6	50			61°	7.99	
			60	7.1	86			67°	7.99	
EQS-DM008	S3222-30A-14UH	30A-60A	0	13.9	0	1.6	8.4	0°	7.99	
			30	12.9	12			53°	7.99	
			45	10.4	50			61°	7.99	
			60	9.0	90			67°	7.99	
EQS-DM009	S3222-30A-21UH	30A-60A	0	21.7	0	1.7	8.4	0°	7.99	
			30	13.4	24			53°	7.99	
			45	9.6	55			61°	7.99	
			60	7.1	100			67°	7.99	
EQS-DM010	S4128-40A-17UH	40A-80A	0	16.0	0	2.0	12	0°	11.52	
			40	14.7	34			55°	11.52	
			60	13.2	83			63°	11.52	
			80	11.5	100			71°	11.52	
EQS-DM011	S4128-40A-25UH	40A-80A	0	24.2	0	2.0	12	0°	11.52	
			40	18.5	35			55°	11.52	
			60	14.9	85			63°	11.52	
			80	11.9	105			71°	11.52	
EQS-DM012	S5032-60A-15UH	60A-120A	0	16.4	0	2.0	20	0°	13.34	
			60	14.8	38			59°	13.34	
			90	12.1	88			68°	13.34	
			120	10.4	96			75°	13.34	

Si-Fe Selectable（铁铝选型表）

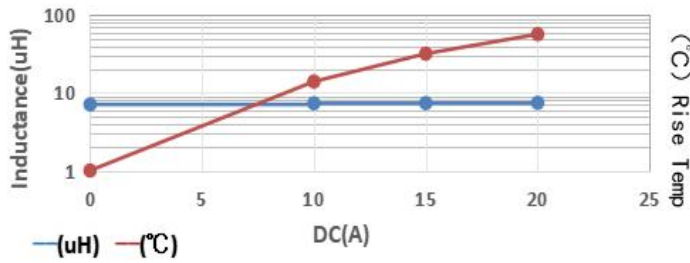
Part No	Model (uH)	Rated (A) Max (A)	DC-Bace (10K)		Rise Temp (℃)	DCR (mΩ)	Wire Area	Le	H-DC	Remar ks
			RMS (@A)	L (±15%)						
EQF-DM001	F2014-10A-7UH	10A-20A	0	7.3	0	3.9	2.8	0°	5.32	
			10	7.3	14			42°	5.32	
			15	7.3	24			61°	5.32	
			20	7.2	46			66°	5.32	
EQF-DM002	F2014-10A-11UH	10A-20A	0	11.7	0	3.9	2.8	0°	5.32	
			10	11.5	18			42°	5.32	
			15	11.3	28			61°	5.32	
			20	11.1	44			66°	5.32	
EQF-DM003	F2014-10A-17UH	10A-20A	0	16.5	0	4.0	2.8	0°	5.32	
			10	15.5	16			42°	5.32	
			15	14.8	28			61°	5.32	
			20	14.1	44			66°	5.32	
EQF-DM004	F2619-20A-5UH	20A-40A	0	4.7	0	1.6	5.6	0°	6.39	
			20	4.7	14			45°	6.39	
			30	4.7	32			62°	6.39	
			40	4.7	50			68°	6.39	
EQF-DM005	F2619-20A-8UH	20A-40A	0	8.3	0	1.6	5.6	0°	6.39	
			20	8.2	16			45°	6.39	
			30	8.0	32			62°	6.39	
			40	7.8	54			68°	6.39	
EQF-DM006	F2619-20A-11UH	20A-40A	0	11.2	0	1.6	5.6	0°	6.39	
			20	10.7	16			45°	6.39	
			30	10.2	28			62°	6.39	
			40	9.6	52			68°	6.39	
EQF-DM007	F3222-30A-9UH	30A-60A	0	9.1	0	1.6	8.4	0°	7.99	
			30	8.9	26			50°	7.99	
			45	8.7	44			63°	7.99	
			60	8.3	88			70°	7.99	
EQF-DM008	F3222-30A-14UH	30A-60A	0	14.1	0	1.7	8.4	0°	7.99	
			30	13.1	22			50°	7.99	
			45	12.0	52			63°	7.99	
			60	10.8	98			70°	7.99	

Si-Fe Selectable（铁铝选型表）

Part No	Model (uH)	Rated (A) Max (A)	DC-Bace (10K)		Rise Temp (℃)	DCR (mΩ)	Wire Area	Le	H-DC	Remarks
			RMS (@A)	L (±15%)						
EQF-DM009	F3222-30A-21UH	30A-60A	0	20.9	0	1.6	8.4	0°	9.47	
			30	19.4	28			50°	9.47	
			45	17.5	54			63°	9.47	
			60	15.3	98			70°	9.47	
EQF-DM010	F4128-40A-17UH	40A-80A	0	16.2	0	2.0	12	0°	11.52	
			40	16.0	36			55°	11.52	
			60	16.0	88			65°	11.52	
			80	15.2	48			72°	11.52	
EQF-DM011	F4128-40A-25UH	40A-80A	0	25.4	0	2.0	12	0°	11.52	
			40	24.7	38			55°	11.52	
			60	23.7	84			65°	11.52	
			80	21.7	108			72°	11.52	
EQF-DM012	F4128-40A-38UH	40A-80A	0	35.9	0	2.0	12	0°	11.52	
			40	32.5	38			55°	11.52	
			60	28.3	88			65°	11.52	
			80	33.4	116			72°	11.52	
EQF-DM013	F5032-60A-15UH	60A-120A	0	15.1	0	1.2	20	0°	13.34	
			60	15.2	38			56°	13.34	
			90	11.8	86			66°	13.34	
			120	10.1	96			73°	13.34	
EQF-DM014	F5032-60A-23UH	60A-120A	0	23.2	0	1.2	20	0°	13.34	
			60	21.5	38			56°	13.34	
			90	19.4	88			66°	13.34	
			120	17.2	98			73°	13.34	
EQF-DM015	F5032-60A-35UH	60A-120A	0	36.2	0	1.2	20	0°	13.34	
			60	31.3	38			56°	13.34	
			90	35.5	86			66°	13.34	
			120	19.3	94			73°	13.34	

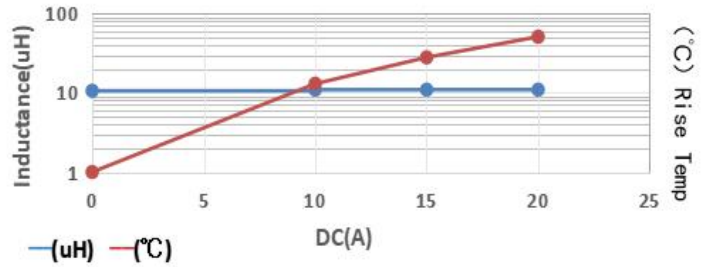
DC-Bace Graph

DC-Bace (10K)



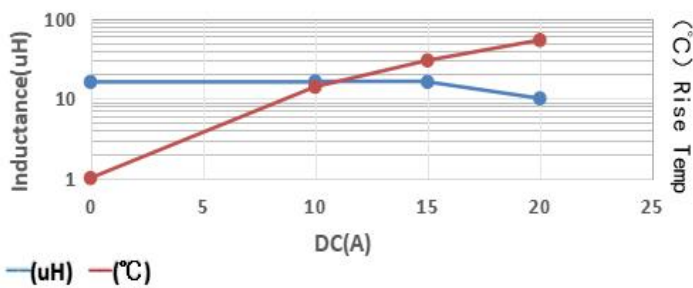
EQM-DM001

DC-Bace (10K)



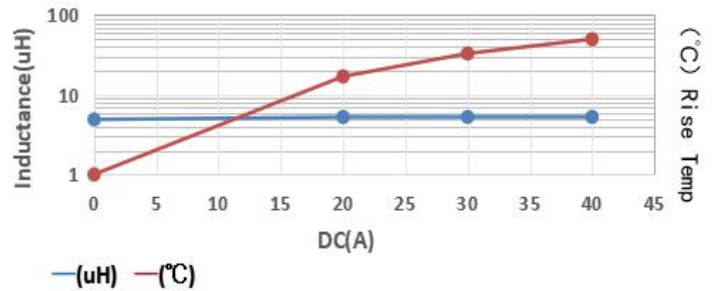
EQM-DM002

DC-Bace (10K)



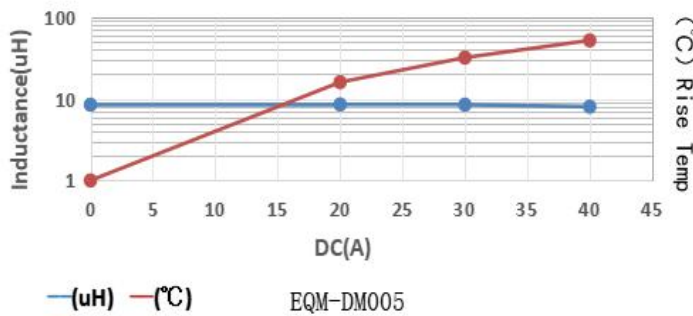
EQM-DM003

DC-Bace (10K)



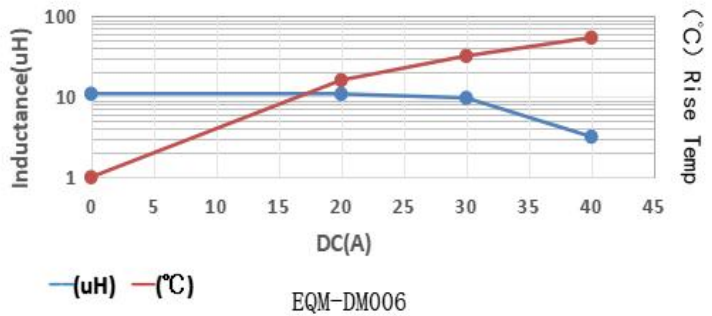
EQM-DM004

DC-Bace (10K)



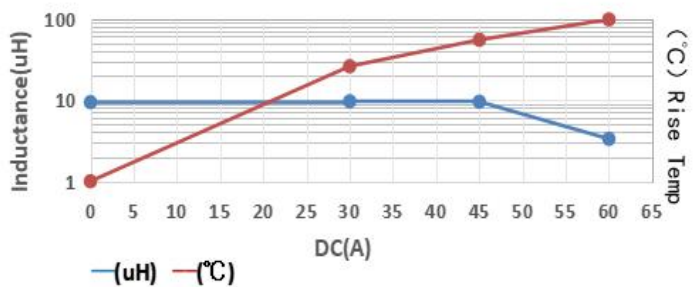
EQM-DM005

DC-Bace (10K)



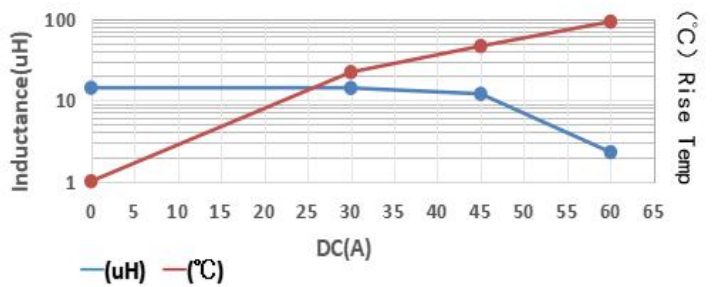
EQM-DM006

DC-Bace (10K)



EQM-DM007

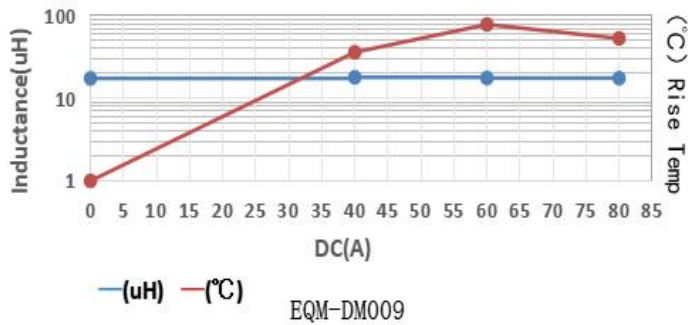
DC-Bace (10K)



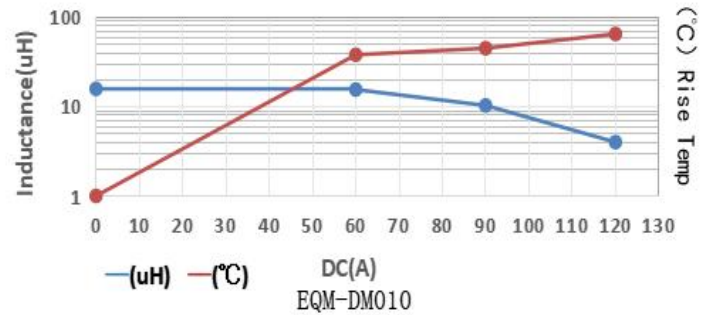
EQM-DM008

DC-Bace Graph

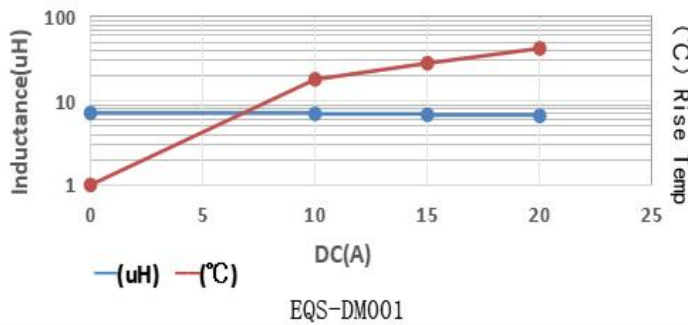
DC-Bace (10K)



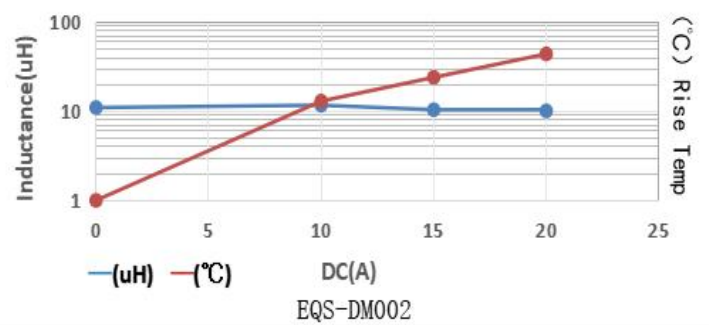
DC-Bace (10K)



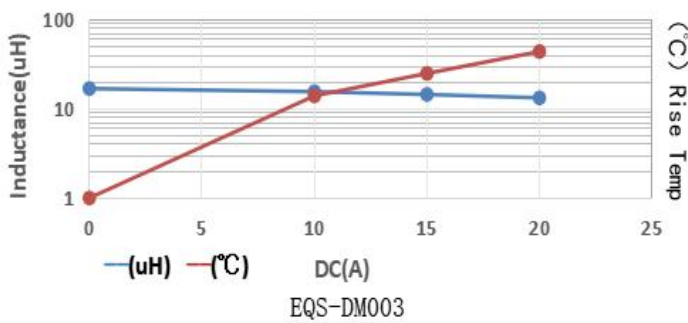
DC-Bace (10K)



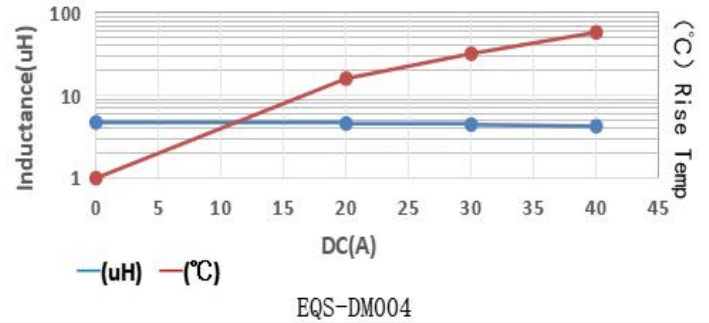
DC-Bace (10K)



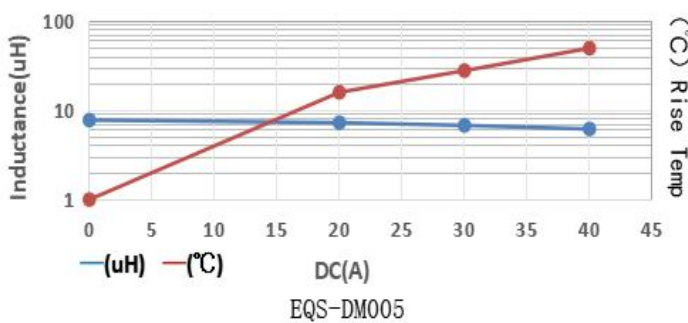
DC-Bace (10K)



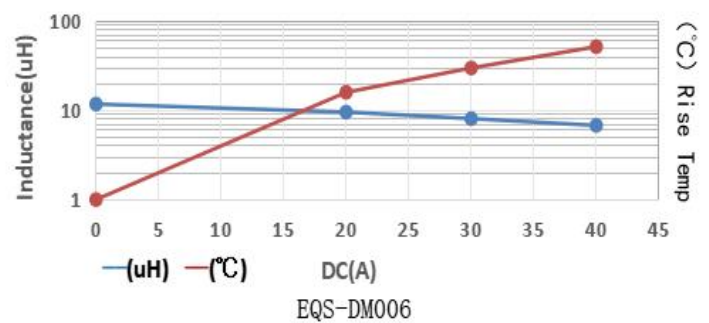
DC-Bace (10K)



DC-Bace (10K)

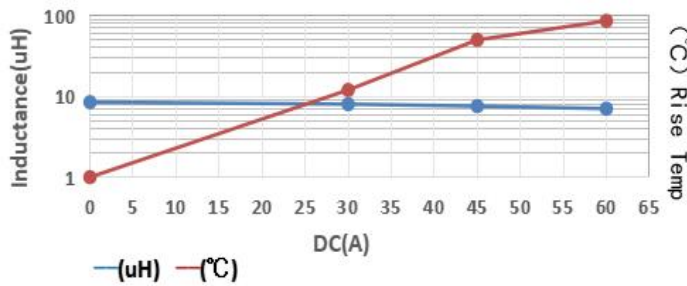


DC-Bace (10K)



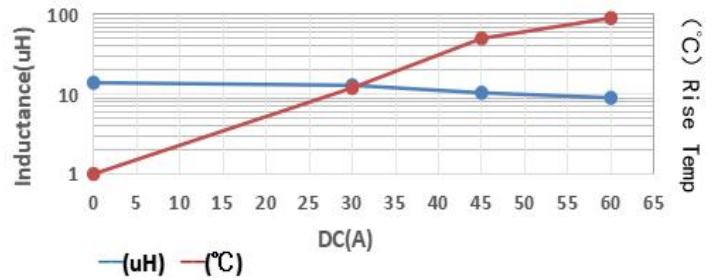
DC-Bace Graph

DC-Bace (10K)



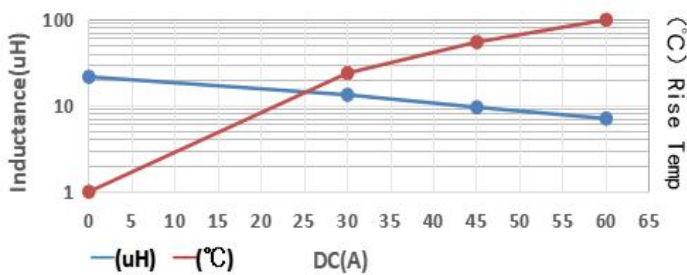
EQS-DM007

DC-Bace (10K)



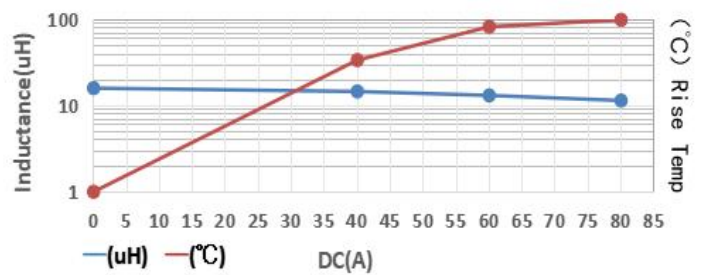
EQS-DM008

DC-Bace (10K)



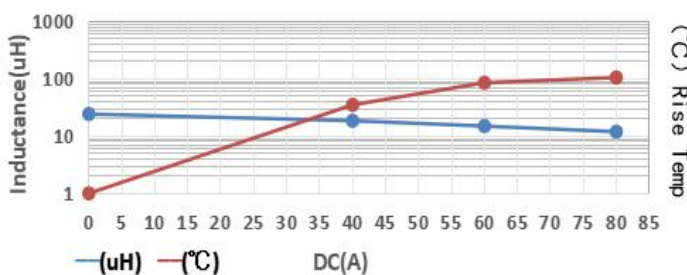
EQS-DM009

DC-Bace (10K)



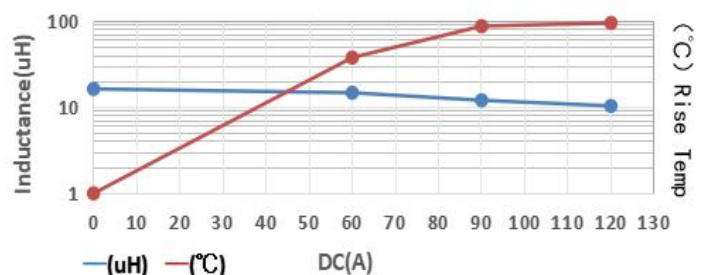
EQS-DM010

DC-Bace (10K)



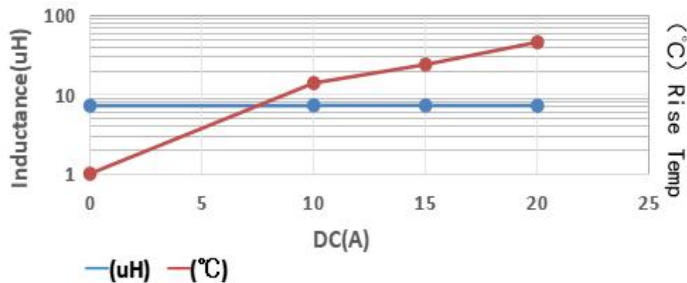
EQS-DM011

DC-Bace (10K)



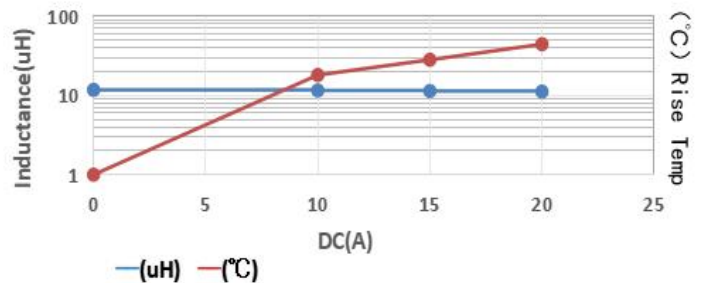
EQS-DM012

DC-Bace (10K)



EQF-DM001

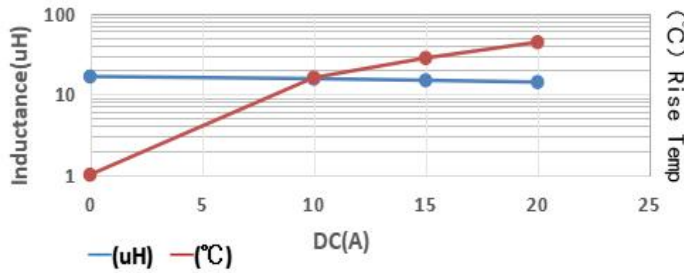
DC-Bace (10K)



EQF-DM002

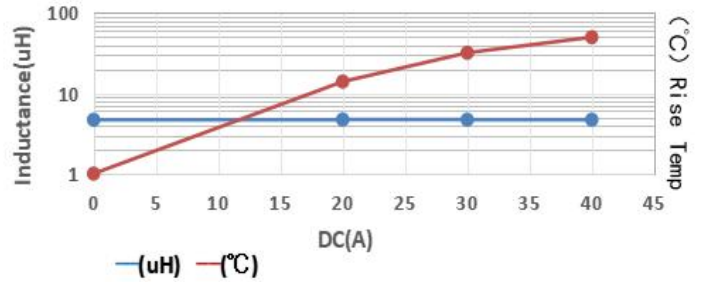
DC-Bace Graph

DC-Bace (10K)



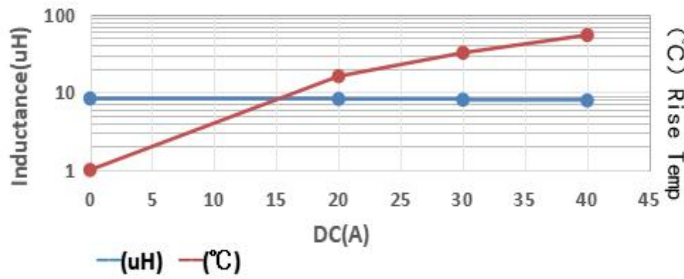
EQF-DM003

DC-Bace (10K)



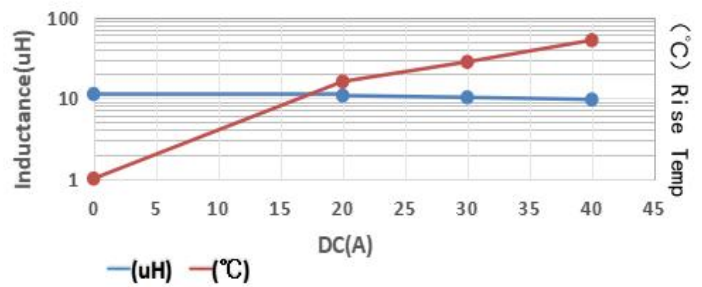
EQF-DM004

DC-Bace (10K)



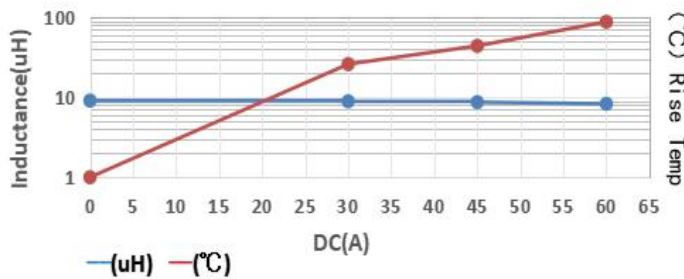
EQF-DM005

DC-Bace (10K)



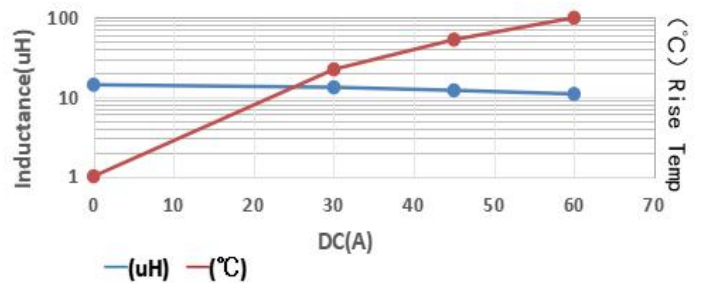
EQF-DM006

DC-Bace (10K)



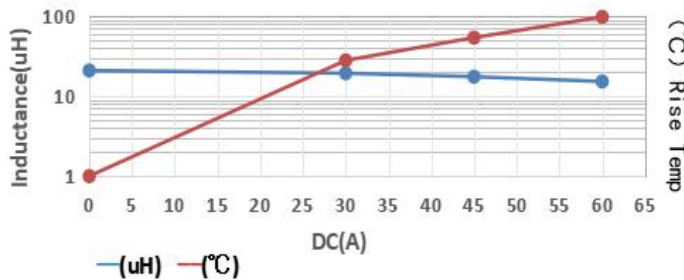
EQF-DM007

DC-Bace (10K)



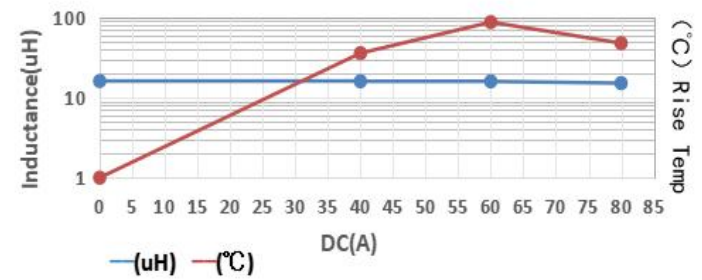
EQF-DM008

DC-Bace (10K)



EQF-DM009

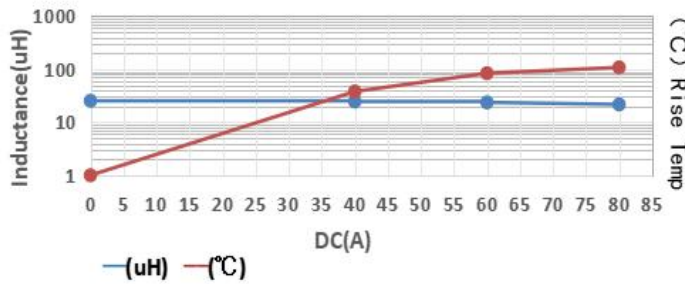
DC-Bace (10K)



EQF-DM010

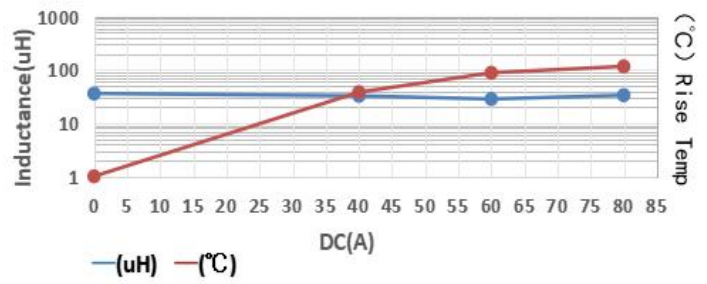
DC-Bace Graph

DC-Bace (10K)



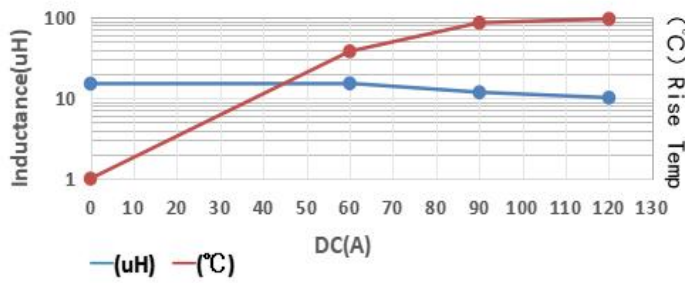
EQF-DM011

DC-Bace (10K)



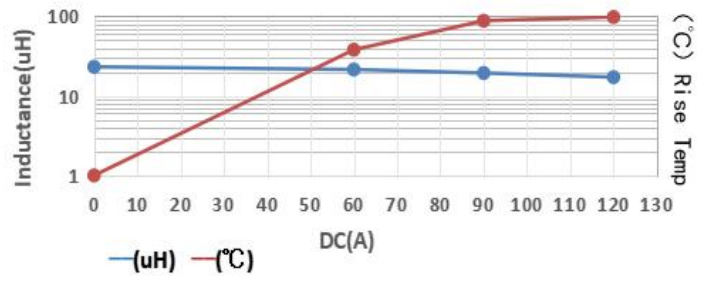
EQF-DM012

DC-Bace (10K)



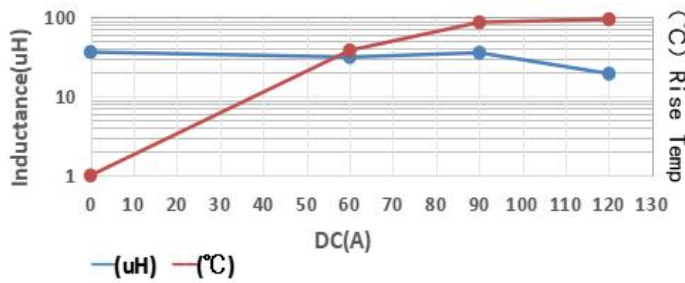
EQF-DM013

DC-Bace (10K)



EQF-DM014

DC-Bace (10K)



EQF-DM015