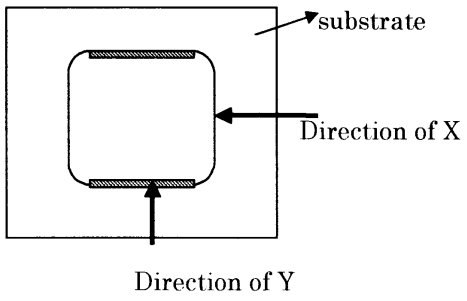
5. ENVIRONMENTAL CHARACTERISTIC

Items	Test conditions	Spec
1) Heat Resistance	135±2℃ 96h	After the reliability tests, should meet the requirements of Insulation characteristic [item3.-1), 3.-2)] and inductance should be within initial value ±5% ・Regarding the test for [item5.-5)] no breakage of magnet shall occur. ・ Regarding the test for [item 5.-4),5.-6),5.-7)] no mechanical damage shall occur.
2) Cold Resistance	-40±2℃ 96h	
3) Moisture Resist	60±2℃ 95±3%RH 96h	
4) Thermal shock	-40±2℃ 60min~room ambient 5min ~135±2℃ 60min~room ambient 5min } 5 cycles	
5) Vibration	1.5mmMAX. total excursion 10~55~10Hz traversed in 1min. 2h in each of 3 mutually perpendicular	
6) Solder heat proof	(Preheating) 160±10℃ 60~120s → (Retention time) 230℃ or more. 35±5s and 260℃ 5s max. 4 times	
7) Impact Resist.	980m/s^2 (100G) X Y Z Three directions.	
8) Electrode strength	The electrode of the sample coil is put up and solder is put up to the substrate. The static load of 4.9N(500gf) is added from two directions (X and Y) respectively for 10±2 seconds. * The substrate for the examination uses "Example of the pattern" of the attached paper.  	Thing in which electrode flakes off and is not disconnected.

* Non-washable notes

Never wash the Power Choke Coil because liquid remaining on them may cause migration, erosion and irreparable damage.

R	Date	Ref. No.		Issued Date	Manager
	. . .			02. 04. 24 R-	M.Yoshihara
	. . .			Authorized Date	Supervisor
	. . .			02. 04. 24 R-	S.Shimomura
	. . .				Engineer
	. . .				K.Takagi

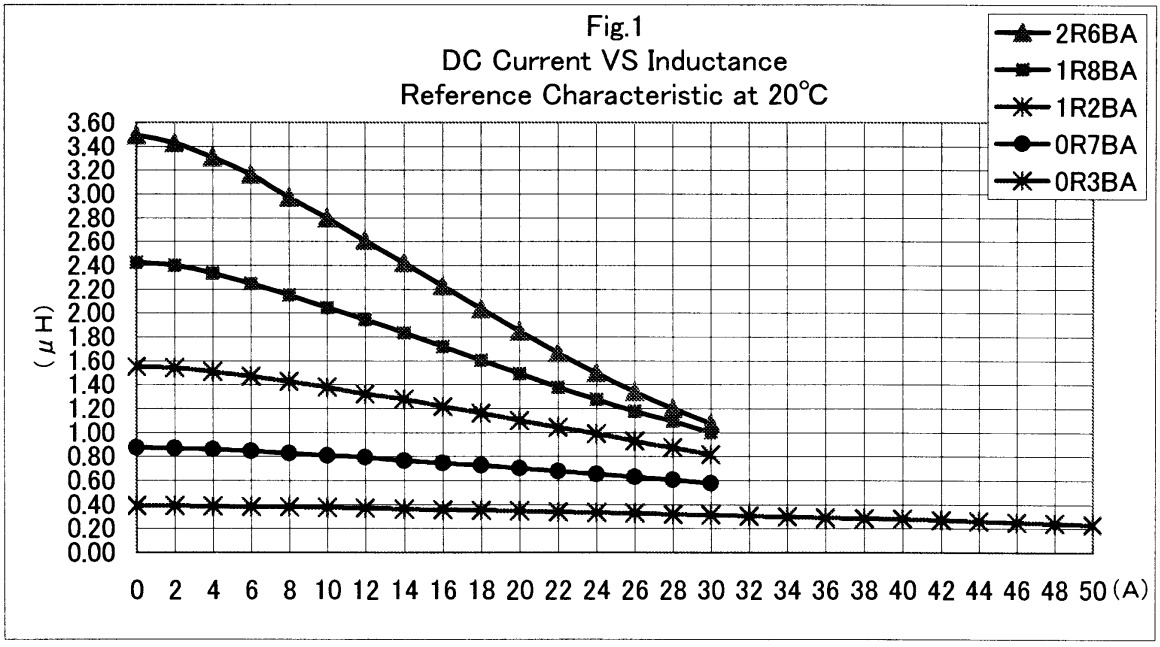
[ATTACHED PAPER 1] ELECTRICAL CHARACTERISTICS

Parts name	Inductance at 20°C L 1		Inductance at 20°C L 2		DC resistance at 20°C
	(μH)	Measurement current	(μH) Reference Only		DCR (mΩ) max.
ETQP2H0R3BFA	0.29±20%	at 36A	0.24	at 50A	0.54
ETQP2H0R7BFA	0.69±20%	at 21A	0.59	at 29A	1.30
ETQP2H1R2BFA	1.22±20%	at 16A	1.04	at 22A	2.27
ETQP2H1R8BFA	1.83±20%	at 14A	1.49	at 20A	3.48
ETQP2H2R6BFA	2.61±20%	at 12A	2.12	at 17A	4.98

Please refer to the lower side and the next page for the detailed characteristic.
Fig.1 : DC Current VS Inductance.
Fig.2 : DC Current VS Temperature Rise.

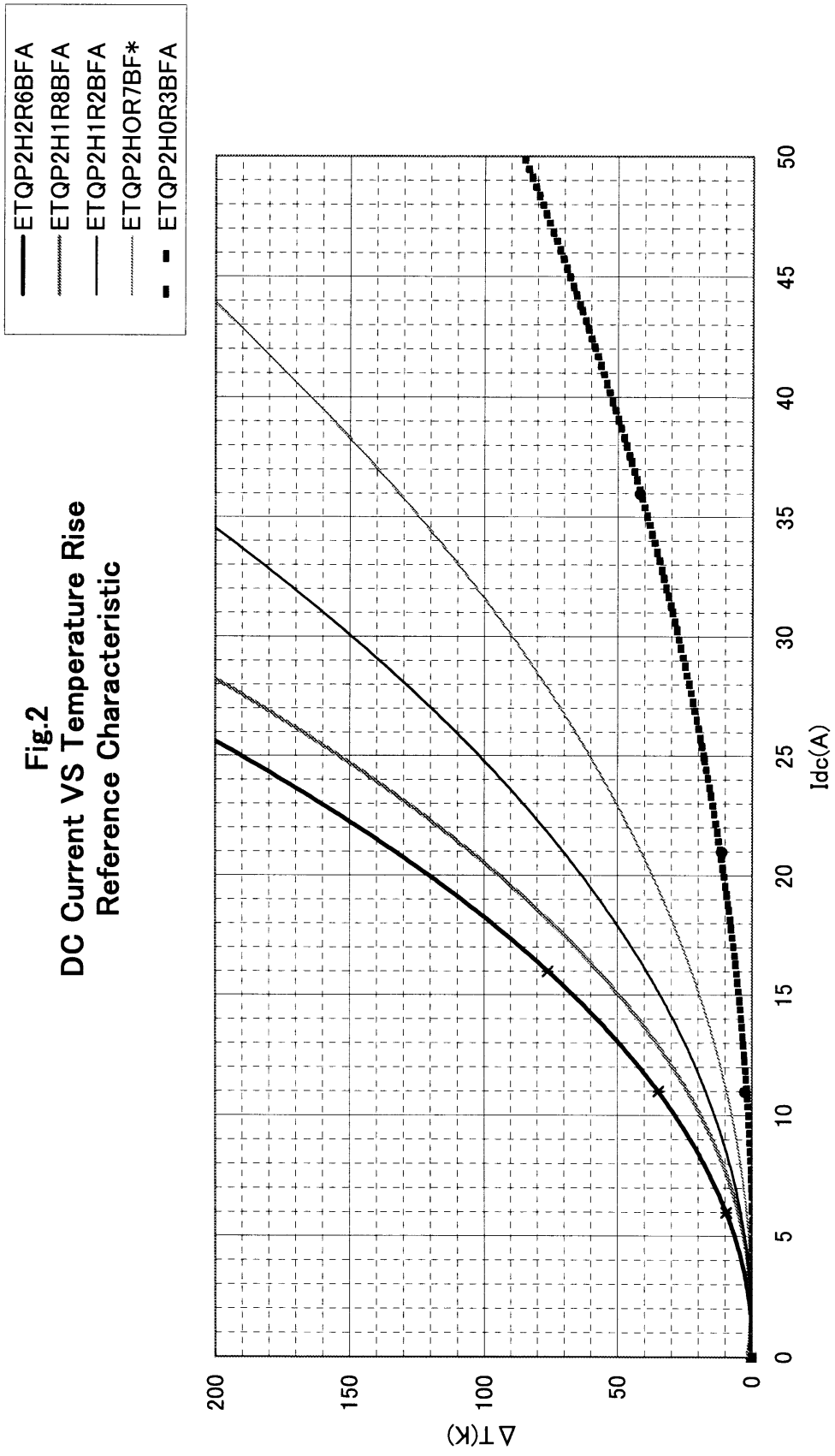
(Note1)
Inductance is measured at 100kHz.

(Note2)
The measurement current value of L1 is the actual value of the current at which the temperature of coil becomes 40K when DC current flows.



R	Date	Ref. No.		Issued Date	Manager
	. . .			02. 04. 24 R－	M.Yoshihara
	. . .			Authorized Date	Supervisor
	. . .			02. 04. 24 R－	S.Shimomura
	. . .				Engineer
	. . .				K.Takagi

Fig.2
DC Current VS Temperature Rise
Reference Characteristic



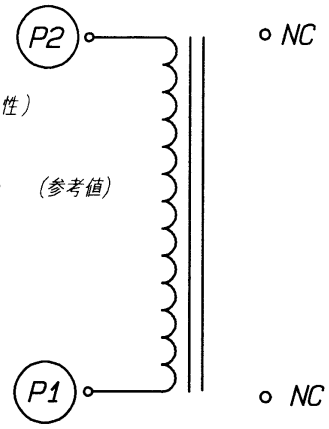
SCHEMATIC DIAGRAM

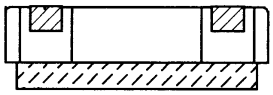
Trigonometry (三角法) Unit: mm (単位: mm)

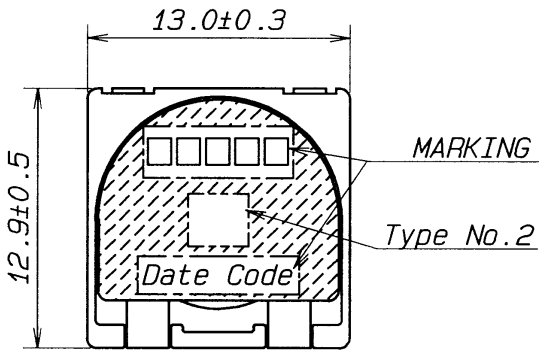
R	Q'ty	Date	Ref.No.	R	Q'ty	Date	Ref.No.

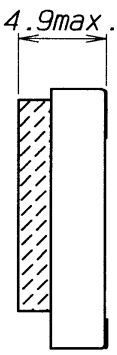
(5/13)

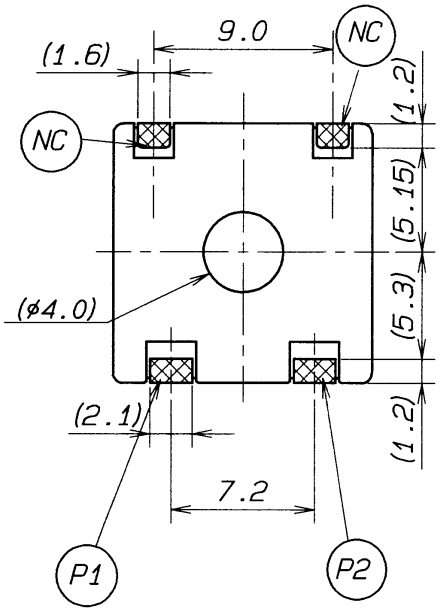
CONNECTION

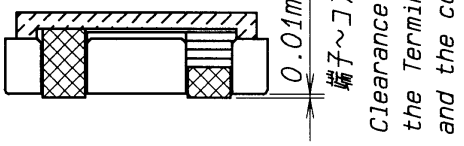




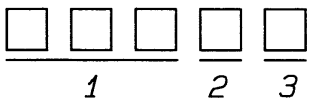






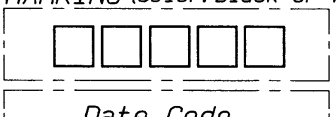


Detail of MARKING



1	INDUCTANCE	Rated Inductance Code (Ex.) 8.2uH → 8R2 10.2uH → 102
2	TYPE	DUST TYPE → B
3	OTHER	A or K

MARKING (Color: Black or White)

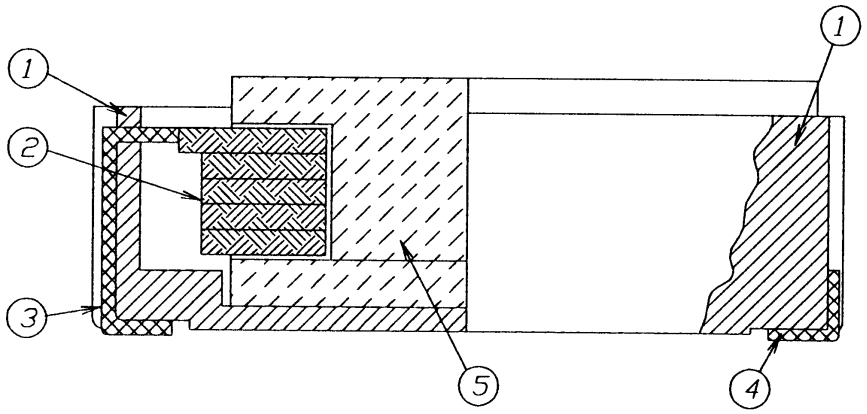


Spec.No. 151-/111-	ETQP2H******-G-S
Date R- '01.03.23	Manager : M.YOSHIHARA Supervisor: K.NAKATANI Engineer: S.SHIMOMURA

MATERIAL LIST

CUSTOMER'S NO. :

OUR PART NO. : ETQP*H******



No	PART NAME	MATERIAL
1	MOULD RESIN	POLYPHTHALAMIDE(PPA) POLYPHENYLENE SULFIDE(PPS) LIQUID CRYSTALLINE POLYESTER (LCP)
2	COIL	MODIFIED EPOXY ACRYLIC ENAMELED RECTANGULAR CUPPER WIRE YESTERIMIDE URETHANE ENAMELED RECTANGULAR CUPPER WIRE
3	TERMINAL(P1,P2)	COPPER WIRE (SOLDER COATED : LEAD FREE)
4	TERMINAL(NC)	COPPER WIRE (SOLDER COATED : LEAD FREE)
5	CORE	DUST CORE

R	Q'ty	Date	Ref.No.	R	Q'ty	Date	Ref.No.

Spec.No. 151-111-) ETQP*H******-G	
Date R- '00. 11. 12	Manager : M.YOSHIHARA
	Supervisor: K.NAKATANI
	Engineer: S.SHIMOMURA