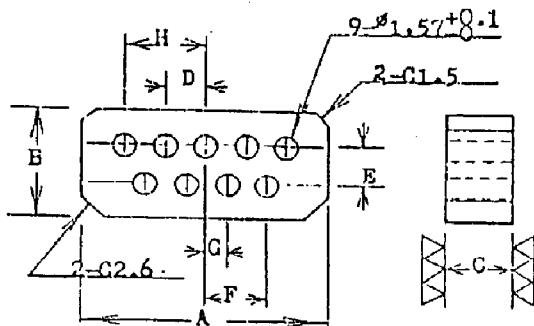


SPECIFICATION FOR APPROVAL

CUSTOMER:	DATE: APR. 15. 93"
PT/NO: FH9-14.5X7.6X2.8	CUSTOMER DWG. NO:

1. CONFIGURATION & DIMENSION: (UNIT:m/m)



A	14.5±0.5 m/m	II	5.40±0.05 m/m
B	7.6±0.5 m/m	I	m/m
C	2.8±0.1 m/m	J	m/m
D	2.74±0.05 m/m	K	m/m
E	2.84±0.05 m/m	L	m/m
F	4.11±0.05 m/m	M	m/m
G	1.37±0.05 m/m	N	m/m

2. ELECTRICAL REQUIREMENTS

ITEM	MEASURE VALUE	TEST FREQUENCY
Z (ohm)	20 MIN	30 MHz
Z (ohm)	30 MIN	50 MHz
Z (ohm)	50 MIN	100 MHz
Z (ohm)	MIN	MHz
Z (ohm)	MIN	MHz
Z (ohm)	MIN	MHz

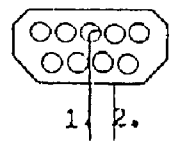
3. TESTING EQUIPMENTS:

- HP-4191A RF IMPEDANCE ANALYZER
- HP-18093A BINDING POST FIXTURE
- HP-4261A LCR METER
- Q-METER MQ-1001
- HP-4342A Q-METER
- HP-4277A L. C. R. Z. METER
- WAVETEK MODEL 1801B SWEEP GENERATOR
- WAVETEK MODEL VP-387A OSCILLOSCOPE
- IMPEDANCE BRIDGE WIND BAND A57U
- WHEATSTONE BRIDGE TYPE-2755
- LEADER LDM 815 DIP METER
- GOOD WILL GPL-1600 DC POWER SUPPLY
- PUNCTURE/INSULATION TESTER MODEL GPI-5005T

4. WINDING & FIGURE

CORE	FH9-14.5X7.6X2.8
WIRE	1.0 U.E.W.2
TURNS	0.5Ts

1. TEST TERMINAL: 1, 2
2. TEST LEAD WIRE LENGTH: 80m/m



5. ANY OPINIONS OF CUSTOMER:

6. APPROVED BY LA CHI:

APPROVED BY	
CHECKED BY	林明達 4/15
REPORTED BY	Jones 4/15

APPROVED BY CUSTOMER:

SPECIFICATION FOR APPROVAL

CUSTOMER :

DATE :

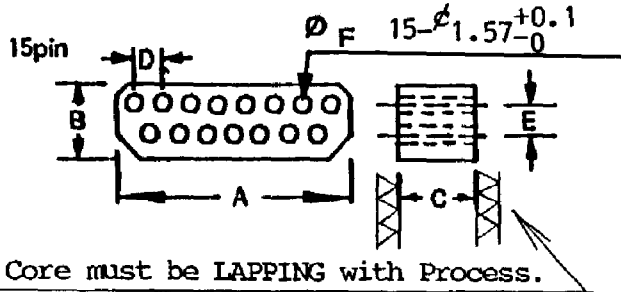
SEP.14.1995

MAGNET PT/NO : FH15-22.65x7.6x2.8(J70)

CUSTOMER DWG NO :

1. CONFIGURATION & DIMENSION : (UNIT:m/m)

FH15-Series



A	22.65±0.5	H
B	7.6±0.5	I
C	2.8±0.1	J
D	2.77±0.08	K
E	2.84±0.08	L
F	1.57 ^{+0.1} ₋₀	M
G		N

2. ELECTRICAL REQUIREMENTS

ITEM	MEASURE VALUE	TEST FREQUENCY
IMPEIDANCE		
Z(Ohm)	20 MIN	30 MHz
Z(Ohm)	30 MIN	50 MHz
Z(Ohm)	50 MIN	100 MHz

3. TESTING EQUIPMENTS:

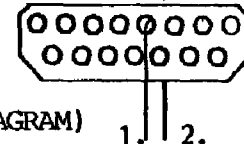
- HP-5314A UNIVERSAL COUNTER
- HP-4342A Q-METER
- SUPER MEGOHM METER MODEL SM-5E TOA
- HP-4261A LCR METER
- WAVETEK MODEL 1801B SWEEP/GENBRATOR
- WAVETEK MODEL VP-387A OSCILLOSCOPE
- IMPEDANCE BRIDGE WIND BAND A57U
- WHEATSTONE BRIDGE TYPE-2755 YOKOGAWA
- GOOD WILL GPL-1600 DC POWER SUPPLY
- PUNCTURE/INSULATION TESTER MODEL:GPI-5005T
- ## HP-4191A RF IMPEDANCE ANACYZER (OSC 1V)
- ## HP-16093A BINDING POST FIXTURE (ELEC LENGTH:Ø0.34cm)
- HP-4277A L. C. R. Z. METER
- HP-16092A SPRING CLIP FIXTURE
- Application Frequency Range:~300MHZ

4. WINDING & FIGURE

CORE	FH15-22.65x7.6x2.8(J70)
WIRE	1.0Ø U.E.W.-2
TURNS	½ TS.

最終檢驗項目: QC: A B IQC: C Ferrite IMI Connector Core(FH15-Type)Material P/N:J70

- 1. TEST TERMINAL: 1, 2 ui=620±20%
- 2. TEST LEAD WIRE LENGTH: 80m/m.



PARTS. STD. NO.	F	Z	J	Ø	2	2	F	Ø	7	F	C
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5. ANY OPINIONS OF CUSTOMER:

6. APPROVED BY MAGNET:

APPROVED BY CUSTOMER:

APPROVED BY	CHECKED BY	
	CHECKED BY	
	REPORTED BY	

SPECIFICATION FOR APPROVAL

CUSTOMER :

DATE :

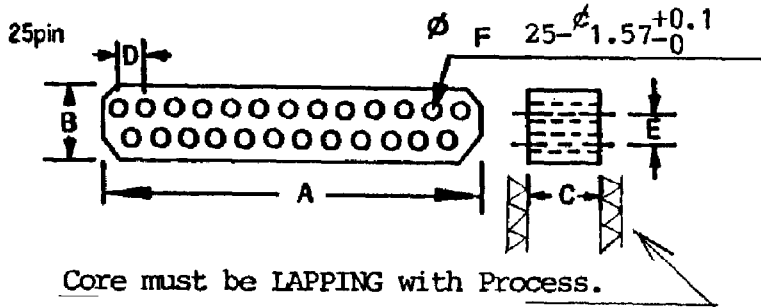
SEP.14.1995

MAGNET PT/NO : FH25-36.4x7.6x2.8(J70)

CUSTOMER DWG NO :

1. CONFIGURATION & DIMENSION : (UNIT:m/m)

FH25-Series



A	36.4±0.5	H	
B	7.6±0.5	I	
C	2.8±0.1	J	
D	2.77±0.08	K	
E	2.84±0.08	L	
F	φ 1.57+0.1/-0	M	
G		N	

2. ELECTRICAL REQUIREMENTS

ITEM	MEASURE VALUE	TEST FREQUENCY
IMPEDANCE Z(Ohm)	20 MIN	30 MHz
Z(Ohm)	30 MIN	50 MHz
Z(Ohm)	50 MIN	100 MHz

3. TESTING EQUIPMENTS:
- HP-5314A UNIVERSAL COUNTER
 - HP-4342A Q-METER
 - SUPER MEGOHM METER MODEL SM-5E TOA
 - HP-4261A LCR METER
 - WAVETEK MODEL 1801B SWEEP/GENERATOR
 - WAVETEK MODEL VP-387A OSCILLOSCOPE
 - IMPEDANCE BRIDGE WIND BAND A57U
 - WHEATSTONE BRIDGE TYPE-2755 YOKOGAWA
 - GOOD WILL GPL-1600 DC POWER SUPPLY
 - PUNCTURE/INSULATION TESTER MODEL:GPI-500ST
 - ## HP-4191A RF IMPEDANCE ANALYZER(OSC 1V)
 - ## HP-16093A BINDING POST FIXTURE (ELEC LENGTH:φ0.34cm)
 - HP-4277A L. C. R. Z. METER
 - HP-16092A SPRING CLIP FIXTURE
- Application Frequency Range: ~300MHZ

4. WINDING & FIGURE

CORE	FH25-36.4x7.6x2.8(J70)
WIRE	1.0φ U.E.W.-2
TURNS	1/2 Ts.

最終檢驗項目: QC: A B. IQC: C

Ferrite EMI Connector Core (FH25-Type) Material P/N: J70
 ui=620±20%

1. TEST TERMINAL: 1, 2 (TEST DIAGRAM)
 2. TEST LEAD WIRE LENGTH: 80m/m.

PARTS. STD. NO.	F	Z	J	φ	3	6	D	φ	7	F	B
-----------------	---	---	---	---	---	---	---	---	---	---	---

5. ANY OPINIONS OF CUSTOMER:

6. APPROVED BY MAGNET:

APPROVED BY CUSTOMER:

APPROVED BY	CHECKED BY	
	CHECKED BY	楊 9/14
	REPORTED BY	

SPECIFICATION FOR APPROVAL

CUSTOMER:

DATE:

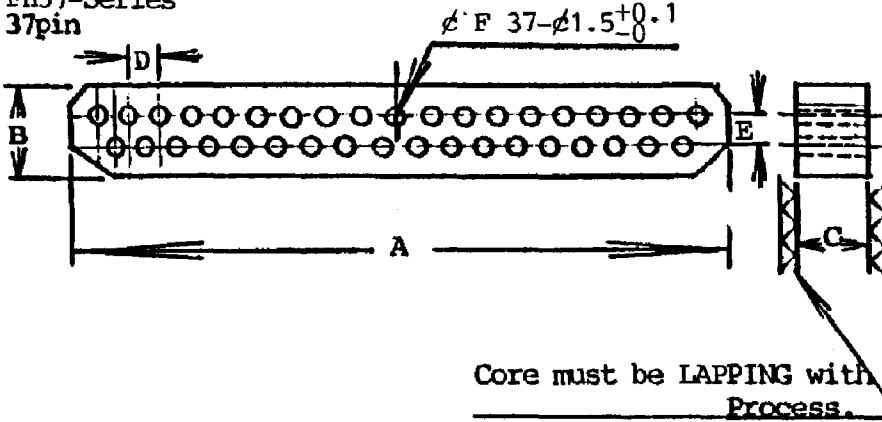
SEP. 14, 1995

MAGNET PT/NO: FH37-53.08x7.7x2.8 (J70)

CUSTOMER DWG NO:

1 CONFIGURATION & DIMENSION: (UNIT:%)

FH37-Series
37pin



A	53.08 ^{+0.5}	H
B	7.7 ^{+0.5}	I
C	2.8 ^{+0.1}	J
D	2.77 ^{+0.08}	K
E	2.84 ^{±0.08}	L
F	∅ 1.5 ^{+0.1} ₀	M
G		N

Core must be LAPPING with Process.

2 ELECTRICAL REQUIREMENTS

ITEM	MEASURE VALUE	TEST FREQUENCY
IMPEDANCE Z(Ohm)	28 MIN	30 MHZ
Z(Ohm)	36 MIN	50 MHZ
Z(Ohm)	52 MIN	100 MHZ

3 TESTING EQUIPMENTS:

- HP 4342A Q-METER
 - Q-METER MQ-1601
 - HP 4261A LCR METER
 - WAVETEK MODEL 1801B SWEEP/GENERATOR
 - WAVETEK MODEL VP-387A OSCILLOSCOPE
 - IMPEDANCE BRIDGE WIND BAND A57U
 - WHEATSTONE BRIDGE TYPE-2755
 - LEADER LDM 815 DIP METER
 - GOOD WILL GPL-1600 DC POWER SUPPLY
 - PUNCTURE/INSULATION TESTER MODEL:GPI-5005T
 - ## HP-4191A RF IMPEDANCE ANALYZER(OSC 1V)
 - ## HP-16093A BINDING POST FIXTURE (ELEC LENGTH@ 0.34cm)
 - HP-4277A L. C. R. Z. METER
- Ferrite EMI Filtered Connectors Core(FH37)Material:J70

4 WINDING & FIGURE

最終檢驗項目: QC: A B ICC: C

CORE	FH37-53.08x7.7x2.8(J70)
WIRE	1.0 ∅ U.E.W-2
TURNS	1/2 TS.

J70 ui=620^{+20%}



- TEST TERMINAL: 1, 2 (TEST DIAGRAM)
- TEST LEAD WIRE LENGTH: 80m/m

PARTS. STD. NO. F Z J ∅ 5 3 ∅ ∅ 7 G B

5 ANY OPINIONS OF CUSTOMER:

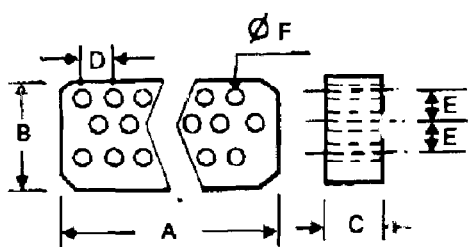
6. APPROVED BY MAGNET:

APPROVED BY CUSTOMER:

APPROVED BY	CHECKED BY	
	CHECKED BY	楊 9/14
	REPORTED BY	9/14

SPECIFICATION FOR APPROVAL

CUSTOMER :	DATE : APR. 18. '2000
ITEM <i>FH15-13.6x9.5x2.2</i>	CUSTOMER DWG. NO. :

CONFIGURATION & DIMENSION : (UNIT:m/m) 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">A</td><td style="text-align: center;">13.6 ± 0.4</td></tr> <tr><td style="text-align: center;">B</td><td style="text-align: center;">9.5 ± 0.3</td></tr> <tr><td style="text-align: center;">C</td><td style="text-align: center;">2.2 ± 0.1</td></tr> <tr><td style="text-align: center;">D</td><td style="text-align: center;">2.27 ± 0.08</td></tr> <tr><td style="text-align: center;">E</td><td style="text-align: center;">2.54 ± 0.15</td></tr> <tr><td style="text-align: center;">F</td><td style="text-align: center;">1.0 ± 0.15₀</td></tr> <tr><td style="text-align: center;">G</td><td></td></tr> <tr><td style="text-align: center;">H</td><td></td></tr> </table>	A	13.6 ± 0.4	B	9.5 ± 0.3	C	2.2 ± 0.1	D	2.27 ± 0.08	E	2.54 ± 0.15	F	1.0 ± 0.15 ₀	G		H	
A	13.6 ± 0.4																
B	9.5 ± 0.3																
C	2.2 ± 0.1																
D	2.27 ± 0.08																
E	2.54 ± 0.15																
F	1.0 ± 0.15 ₀																
G																	
H																	



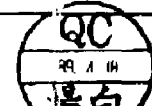
ELECTRICAL REQUIREMENTS		
ITEM	MEASURE VALVE	TEST FREQUENECY
Z (ohm)	18 MIN	25 MHz
Z (ohm)	45 MIN	100 MHz
Z (ohm)	MIN	MHz

TESTING EQUIPMENTS :
HP-4191A RF IMPEDANCE ANACYZER HP-4193A RF IMPEDANCE ANACYZER HP-16092A BINDING POST FIXTURE HP-16093A BINDING POST FIXTURE HP-4261A LCR METER HP-4286A PRECISION LCR METER Q-METER MQ-1601 IMPEDANCE BRIDGE WINDA57L GOOD WILL GPL-1600 DC POWER SUPPLY WHEATSTONE BRIDGE TYPE-2754 WAVETEX MODEL 1801B SWEEP GENERATOR

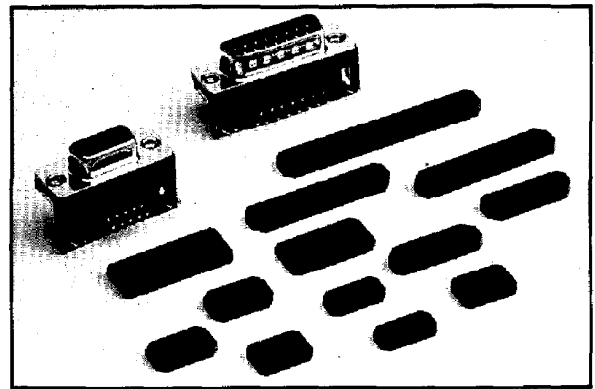
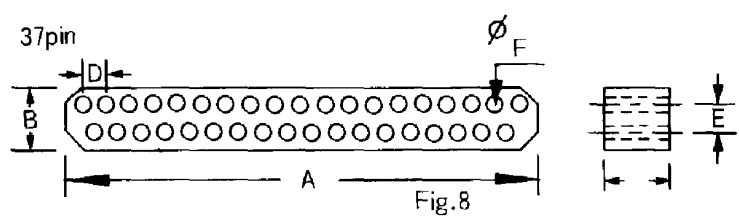
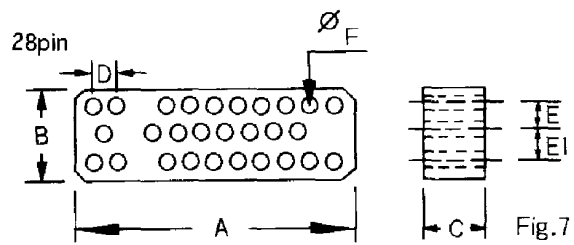
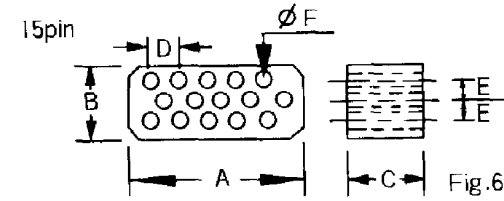
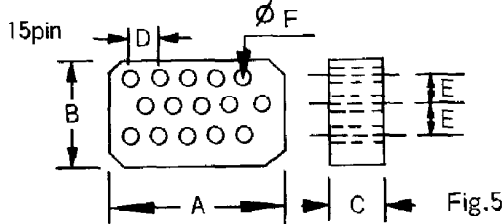
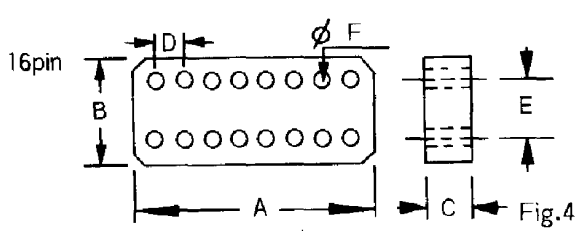
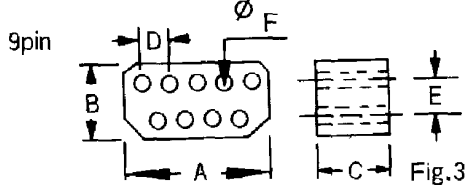
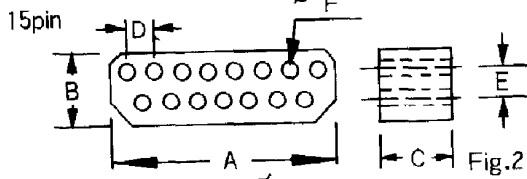
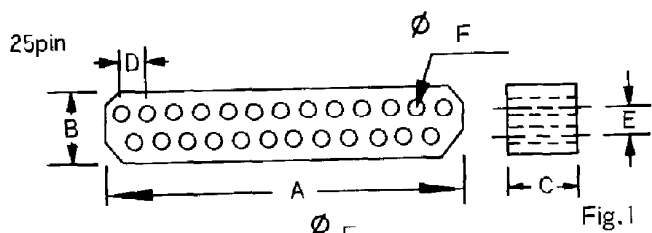
METERIAL CHARACTERISTICS	
CORE	B8 FDH15-13.6x9.5x2.2
MATERIAL	B-8 (Ni-Zn)
μi	800 ± 20%

1. TEST WIRE : φ0.65 x 100 mm

ANY OPINIONS OF CUSTOMETR :

APPROVED BY P.C.E. :	
APPROVED BY	
CHECKED BY	
REPORTED BY	

EMI Suppression Plates for Connectors/FH Series



Part Number	Fig	Dimension (UNIT:m/m)						
		multihole (Pin)	A	B	C	D	E	ϕF
FH15-14×7×4(J70)	6	(15)	14±0.3	7±0.3	4±0.1	2.29	1.98±0.05	1.1±0.05
FH15-13.6×9.5×2.2 (J70)	5	(15)	13.6 ⁺⁰ _{-0.4}	9.5±0.3	2.2 ⁺⁰ _{-0.1}	2.286	2.54±0.10	1.0 ^{+0.1} ₋₀
FH16-21.6×11.5×1.5(J70)	4	(16)	21.6±0.5	11.5±0.5	1.5±0.3	2.54	7.62±0.05	1.08 ^{+0.1} ₋₀
FH25-36.4×7.6×2.8(J70)	1	(25)	36.4±0.5	7.6±0.5	2.8±0.1	2.77	2.84±0.05	1.57 ^{+0.1} ₋₀
FH9-14.5×7.6×2.8(J70)	3	(9)	14.5±0.3	7.6±0.3	2.8±0.1	2.74	2.84±0.05	1.57 ^{+0.1} ₋₀
FH15-22.65×7.6×2.8(J70)	2	(15)	22.65±0.5	7.6±0.5	2.8±0.1	2.77	2.84±0.05	1.57 ^{+0.1} ₋₀
FH15-22.65×7.6×3.4(J70)	2	(15)	22.65±0.5	7.6±0.5	3.4±0.3	2.77	2.84±0.05	1.57 ^{+0.1} ₋₀
FH15-22.65×7.6×1.6(J70)	2	(15)	22.65±0.5	7.6±0.5	1.6±0.3	2.77	2.84±0.05	1.57 ^{+0.1} ₋₀
FH15-22.4×7.6×2.8(J70)	2	(15)	22.40±0.5	7.6±0.5	2.8±0.1	2.77	2.84±0.05	1.57 ^{+0.1} ₋₀
FH28-28×11×2.7(L8)	7	(28)	28±0.5	11 ^{+0.5} _{-0.1}	2.7 ⁺⁰ _{-0.1}	2.50	3.5±0.08 3.0±0.08	1.85±0.08
FH15-15.1×9.4×2.0(J70)	5	(15)	15.10±0.3	9.4±0.2	2.0±0.1	2.29	2.54±0.10	1.0 ^{+0.1} ₋₀
FH37-53.08×7.7×2.8(J70)	8	(37)	53.08±0.5	7.7±0.5	2.8±0.1	2.77	2.84±0.08	1.5 ^{-0.1} ₋₀

Properties of Soft-Ferrite Materials

Material Property	Symbol	Unit	L15	L8	J70	J40	M3	M1	M7	S1W	S1	S5
Initial permeability	μ_i		2100 +20%	1500 +20%	620 +20%	440 +20%	400 +20%	290 +20%	160 +20%	110 -20%	120 +20%	75 +20%
Relative loss factor	$\tan \delta/\mu$	$\times 10^{-5}$	<2.3 0.1MHZ	<2.8 0.3MHZ	<3.89 0.7MHZ	<9.64 1MHZ	<10.9 1.5MHZ	<9.84 1MHZ	<44.6 2MHZ	<10.4 1.5MHZ	<6.83 1.5MHZ	<42.3 3.0MHZ
Saturation flux density	Bs	Gauss	2450	2550	2500	1800	1950	1500	2205	1625	1625	1375
Residual flux density	Br	Gauss	1100	1225	1625	700	1200	1100	1700	1100	1125	1150
Coercive force	Hc	Oe	0.1	0.225	0.725	0.55	0.5	0.7	1.04	1.1	1.275	1.625
Curie temperature	Tc	°C	>100	>120	>150	>120	>120	>130	>150	>200	>200	>200
Disaccommodation factor	DF	$\times 10^{-3}$	19	11.8	14.4	9.11	13.0	13.9	1.89	7.31	11.7	8.04
Density	d	g/cm ³	>4.7	>5.0	>4.8	>4.8	>4.7	>4.7	>4.6	>4.6	>4.3	>4.5
Resistivity	ρ	M Ω -cm	19	19	5.7	8	19	14	19	19	18	23

NOTE: 1. Test core size: T-30.8 ϕ x 18.4 ϕ x 7.5

2. Winding method: 0.5U.E.W. 47Ts

3. Temperature: 25°C

4. Initial permeability test frequency: 10KHZ 0.8mA