

JIS

JAPANESE INDUSTRIAL STANDARD

General rules of high frequency coils and intermediate frequency transformers for electronic equipment

JIS C 5320—1994

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J I S

General rules of high frequency coils and intermediate frequency transformers for electronic equipment C 5320-1994

1. Scope This Japanese Industrial Standard specifies the criteria for determination of designation of type, ratings, construction, dimensions and the like of the following products. They are high frequency variable coils and fixed coils (hereafter referred to as "high frequency coils"), and intermediate frequency transformers (hereafter "IFT"), both of which are used mainly for radio and television receivers and other electronic equipment.

Remarks: The standards cited in this Standard are as follows.

JIS C 0801 Color code for electronic parts

JIS C 5002 Environmental requirements for electronic components

JIS C 5321 Methods of test for high frequency inductors and intermediate frequency transformers for electronic equipment

JIS C 5602 Glossary of passive components for electronic equipment

2. Definitions For the purposes of this Standard, the following definition apply. Other terms and the definitions are given in JIS C 5602.

variable range of inductance A range of inductance which can be changed by adjusting a variable mechanism.

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3. Designation of type

3.1 Composition of designation of type The designation of type shall be composed as follows.

Symbol denoting high frequency coil and IFT.	Symbol denoting class.	Symbol denoting dimensions and shape.	Symbol denoting construction of magnetic core. 3.2.4 However, in the case of two-terminal type high frequency coil, symbol denoting terminal drawing out direction and shape.	Symbol denoting rated frequency. 3.2.5 However, in the case of two-terminal type high frequency coil, symbol denoting nominal inductance and its tolerance. 3.2.7	Symbol denoting other necessary items.
3.2.1	3.2.2	3.2.3	3.2.6	3.2.8	3.2.9

Example:

7 mm square IFT	L	IF	07S	V	A1
Multi-terminal high frequency variable coil	L	VM	12T	J	M2
Two-terminal high frequency fixed coil	L	FD	3216dX	D	101K

3.2 Symbol

3.2.1 High frequency coil and IFT The symbol denoting the high frequency coil and IFT shall be L.

3.2.2 Classification The symbols denoting classification shall be two English capital letters as given in Table 1.

Table 1. Symbols denoting classification

Symbol	Classification
VD	Two-terminal high frequency variable coil
VM	Multi-terminal high frequency variable coil
FD	Two-terminal high frequency fixed coil
FM	Multi-terminal high frequency fixed coil
IF	IFT

3.2.3 Dimensions and shape The symbol denoting dimensions shall be two numeric characters, with mm as unit.

The symbol denoting shape shall be one English capital letter according to the shape of the base and the arrangement of terminals. Both are given in Table 2. In the case of the shapes X and Z, however, the dimensional symbols shall be four numeric characters.

In the case of adopting 1/10 mm as unit, a letter (d) shall follow the dimensional symbol.

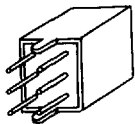
Example: 05d 0.5 mm
 05 5 mm
 50 50 mm
 5010d 5 × 1 mm
 5010 50 × 10 mm

Table 2. Dimensions and shape

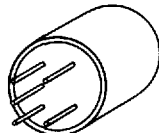
Symbol		Dimensions	Shape		Remarks
Dimensions	Shape		Shape of base	Arrangement of terminals	
	S	Fill in with the length of one side of base.	Square	Square shape	Informative reference Fig. 1
	T	Fill in with the diameter of base.	Circle	Square shape	Informative reference Fig. 2
	X	Fill the first two squares with the nominal major side dimension of base, and the last two squares with the nominal minor side dimension of base.	Rectangle	Square shape	Informative reference Fig. 3 Informative reference Fig. 4
	A	Fill in with the diameter of base.	Circle	60 degree division	Informative reference Fig. 5
	E			45 degree division	Informative reference Fig. 6
	F			36 degree division	Informative reference Fig. 7
	Z	Denote by the external shape of body. Fill the first two squares with the nominal major side dimension, and the last two squares with the nominal minor side dimension.	Other shapes		

Remarks: Squares in the column "Symbols, Dimensions" shall be filled with numeric characters.

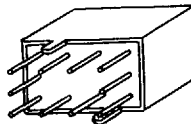
Informative
reference Fig. 1



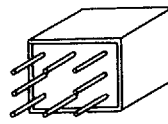
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reference Fig. 2



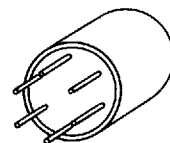
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reference Fig. 3



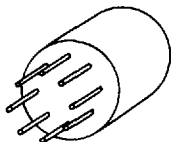
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reference Fig. 4



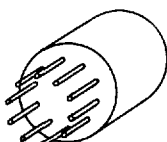
Informative
reference Fig. 5



Informative
reference Fig. 6



Informative
reference Fig. 7



3.2.4 Construction of magnetic core shall be given in Table 3.

Symbols denoting construction of magnetic