

# **Common Mode Choke Coils(Line Filters)**

For power line, Closed magnetic circuit core type

# **HF Series**

Type: Vertical type

HF2316/HF2318 /HF2922

For large inductance

HF2024/HF2422/HF2430/HF2826/HF2836/HF3545

Issue date: December 2010

<sup>•</sup> All specifications are subject to change without notice.

Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.



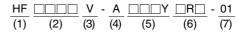
# Common Mode Choke Coils(Line Filters) for AC Power Supply Closed Magnetic Circuit Core Type HF Series Conformity to RoHS Directive

TDK common mode choke coils(line filters) are used in a wide range of prevention of electromagnetic interference(EMI) and radio frequency interference(RFI) from power supply lines and for prevention of multifunctioning of products such as measuring equipment and system equipment.

## **FEATURES**

- · Wide range of selection.
- · High impedance at applicable frequency.
- High self-resonant frequency.

## PRODUCT IDENTIFICATION



(1) Core shape

HF: Square shaped closed magnetic circuit core type

(2) Dimensional code Width×Depth

(3) External shape code

V: Vertical type H: Horizontal type

- (4) High µ material
- (5) Inductance value Example) 133:13mH
- (6) Rated current value Example) 3R0:3.0A
- (7) Product management number

## **SELECTION CHART**

Series	Configuration	Туре	Inductance value (mH)min.	Rated current (A)	Handling power* L×I <sup>2</sup> (mH×A <sup>2</sup> )	Weight (g)typ.	Minimum package quantity (pieces/box)
		HF2316	1.2 to 145	0.2 to 3	10.5	10.5	800
	Vertical type	HF2318	1.5 to 100	0.3 to 3	13	13.5	800
		HF2922	3.2 to 100	0.5 to 3	29	20	440
		HF2024	0.6 to 33	0.3 to 3	7.6	10	800
HF	Closed magnetic circuit	HF2422	2.4 to 68	0.4 to 2.5	15	19.5	540
		HF2430	2.4 to 68	0.4 to 2.5	15	19.5	400
	core types	HF2826	1.8 to 35	1 to 4	35	28	480
		HF2836	1.8 to 35	1 to 4	35	30	400
		HF3545	4.7 to 33	1.5 to 4	75	65	140

<sup>\*</sup> Handling power=(Inductance value)×(Current)². It is possible to design within the range below this value. [Example] The coil for 2A can make even the inductance of 2.5mH or less a product for handling power 10.

<sup>•</sup> Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.



# Closed Magnetic Circuit Core Type HF Series

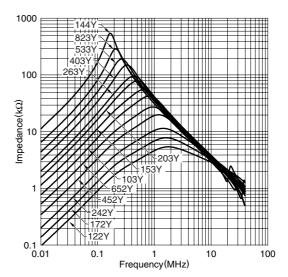
## **FEATURES**

- As closed magnetic circuit core as same as a toroidal core, even at its compact size, it offers large inductance and keeps the high impedance levels required in high frequency ranges.
- Since it uses a closed magnetic circuit core, the leakage flux is relatively small, allowing designers to improve the mounting density of their circuits.

# HF2316-A(SQUARE SHAPED CLOSED MAGNETIC CIRCUIT CORE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM TYPICA

# 23max. 16max. 16max. 15.5max. 1 2 3 3 Weight: 10.5g typ. Recommended hole diameter: Ø1.3 Dimensions in mm

# TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



# ELECTRICAL CHARACTERISTICS (STANDARD LINE UP)

Part No.	Inductance	DC resistance	Rated current
Fait No.	(mH)min.	$(\Omega)$ max.	lac(A)max.
HF2316-A144Y0R2-01	145	6.8	0.2
HF2316-A823Y0R3-01	82	4	0.3
HF2316-A533Y0R4-01	53	2.4	0.4
HF2316-A403Y0R5-01	40	1.7	0.5
HF2316-A263Y0R6-01	26	1.2	0.6
HF2316-A203Y0R7-01	20	1	0.7
HF2316-A153Y0R8-01	15	0.7	0.8
HF2316-A103Y1R0-01	10	0.5	1
HF2316-A652Y1R2-01	6.5	0.3	1.2
HF2316-A452Y1R5-01	4.5	0.2	1.5
HF2316-A242Y2R0-01	2.4	0.12	2
HF2316-A172Y2R5-01	1.7	0.09	2.5
HF2316-A122Y3R0-01	1.2	0.06	3

Measuring equipment of inductance value: LCR meter(HP4261A, HP4263B or equivalent)[f=1kHz]

## **PACKAGING QUANTITIES**

HF2316-A	800pieces/box

Item	Standard value	Conditions	
Rated voltage(V)	80 to 280	50Hz/60Hz	
Dielectric withstanding	2000	Between each winding for	
voltage(V)	2000	1 minute	
Insulation resistance	100min.	Between each winding for	
$(M\Omega)$	TOOTHITI.	DC.500V	
Temperature rise(°C)	45max.	With line resistance	
Operating temperature	-20 to +120	Including self-temperature	
range(°C)	-20 10 +120	rise	
Storage temperature	-20 to +85		
range(°C)	-20 10 +00		
Resistance to	260±5°C, 10±1sec	Solder bath method	
soldering tenperature*1	350±5°C, 5sec max.	Soldering iron method	
Applicable safety	Electrical Appliance and Material Safety		
standard*2	Law ("DENAN"), IEC	60065, UL6500, CSA C22.2	

<sup>\*1</sup> Pb free solder(Sn-3Ag-0.5Cu)

<sup>\*2</sup> However, this product is not recognized by each regulations.

<sup>•</sup> All specifications are subject to change without notice.

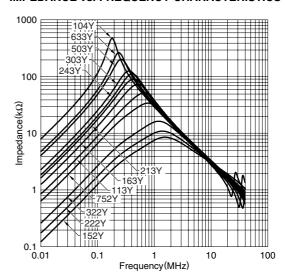
# **ATDK**

# HF2318-A(SQUARE SHAPED CLOSED MAGNETIC CIRCUIT CORE) TYPE

# SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM

# 23max. 18max. 18max. 15.5max. Weight: 13.5g typ. Recommended hole diameter: Ø1.3 Dimensions in mm

# TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



# ELECTRICAL CHARACTERISTICS (STANDARD LINE UP)

Part No.	Inductance	DC resistance	Rated current
ran No.	(mH)min.	$(\Omega)$ max.	lac(A)max.
HF2318-A104Y0R3-01	100	3.6	0.3
HF2318-A633Y0R4-01	63	2.2	0.4
HF2318-A503Y0R5-01	50	1.8	0.5
HF2318-A303Y0R6-01	30	1.1	0.6
HF2318-A243Y0R7-01	24	1	0.7
HF2318-A213Y0R8-01	21	0.75	0.8
HF2318-A163Y1R0-01	16	0.5	1
HF2318-A113Y1R2-01	11	0.35	1.2
HF2318-A752Y1R5-01	7.5	0.26	1.5
HF2318-A322Y2R0-01	3.2	0.12	2
HF2318-A222Y2R5-01	2.2	0.1	2.5
HF2318-A152Y3R0-01	1.5	0.07	3

Measuring equipment of inductance value:
 LCR meter(HP4261A, HP4263B or equivalent)[f=1kHz]

## **PACKAGING QUANTITIES**

HF2316-A	800pieces/box

Item	Standard value	Conditions	
Rated voltage(V)	80 to 280	50Hz/60Hz	
Dielectric withstanding	2000	Between each winding for	
voltage(V)	2000	1 minute	
Insulation resistance	100min.	Between each winding for	
(MΩ)	TOOTTIITI.	DC.500V	
Temperature rise(°C)	45max.	With line resistance	
Operating temperature	-20 to +120	Including self-temperature	
range(°C)	-20 10 +120	rise	
Storage temperature	-20 to +85		
range(°C)	-20 10 +03		
Resistance to	260±5°C, 10±1sec	Solder bath method	
soldering tenperature*1	350±5°C, 5sec max.	Soldering iron method	
Applicable safety	Electrical Appliance and Material Safety		
standard*2	Law ("DENAN"), IEC60065, UL6500, CSA C22.2		

<sup>\*1</sup> Pb free solder(Sn-3Ag-0.5Cu)

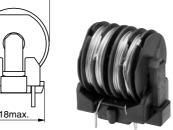
 $<sup>^{\</sup>ast 2}$  However, this product is not recognized by each regulations.

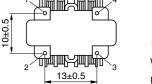


# HF2922-A(SQUARE SHAPED CLOSED MAGNETIC CIRCUIT CORE) TYPE

# SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM

# 29max. 22max. 22max. 32max. 32



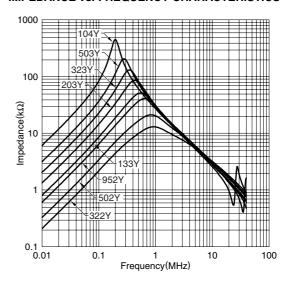




Weight: 20g typ.

Recommended hole diameter: ø1.3 Dimensions in mm

# TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



# ELECTRICAL CHARACTERISTICS (STANDARD LINE UP)

Part No.	Inductance (mH)min.	DC resistance	Rated current
	(11117)111111.	$(\Omega)$ max.	lac(A)max.
HF2922-A104Y0R5-01	100	1.7	0.5
HF2922-A503Y0R8-01	50	0.95	0.8
HF2922-A323Y1R0-01	32	0.59	1
HF2922-A203Y1R2-01	20	0.38	1.2
HF2922-A133Y1R6-01	13	0.25	1.6
HF2922-A952Y2R0-01	9.5	0.19	2
HF2922-A502Y2R5-01	5	0.12	2.5
HF2922-A322Y3R0-01	3.2	0.08	3

Measuring equipment of inductance value:
 LCR meter(HP4261A, HP4263B or equivalent)[f=1kHz]

# **PACKAGING QUANTITIES**

HF2316-A	440pieces/box

Item	Standard value	Conditions
Rated voltage(V)	80 to 280	50Hz/60Hz
Dielectric withstanding	0000	Between each winding for
voltage(V)	2000	1 minute
Insulation resistance	100min.	Between each winding for
$(M\Omega)$	TOOTHITI.	DC.500V
Temperature rise(°C)	45max.	With line resistance
Operating temperature	-20 to +120	Including self-temperature
range(°C)	-20 10 +120	rise
Storage temperature	-20 to +85	
range(°C)	-20 10 +03	
Resistance to	260±5°C, 10±1sec	Solder bath method
soldering tenperature*1	350±5°C, 5sec max.	Soldering iron method
Applicable safety	Electrical Appliance	and Material Safety
standard*2	Law ("DENAN"), IEC	060065, UL6500, CSA C22.2

<sup>\*1</sup> Pb free solder(Sn-3Ag-0.5Cu)

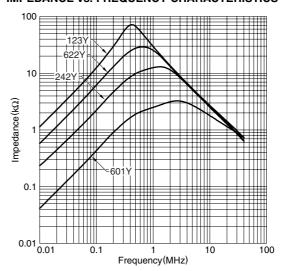
 $<sup>^{\</sup>ast 2}$  However, this product is not recognized by each regulations.

# HF2024(SQUARE SHAPED CLOSED MAGNETIC CIRCUIT CORE) TYPE

# SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM

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# TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



## **ELECTRICAL CHARACTERISTICS**

Part No.	Inductance (mH)min.	DC resistance (Ω)max.	Rated current lac (A)max.
HF2024-333Y0R3-201	33	3.1	0.3
HF2024-253Y0R4-T01	25	2	0.4
HF2024-183Y0R5-201	18	1.45	0.5
HF2024-123Y0R6-201	12	1.3	0.6
HF2024-123Y0R8-T01	12	0.92	0.8
HF2024-103Y0R7-T01	10	0.9	0.7
HF2024-682Y0R8-201	6.8	0.66	0.8
HF2024-622Y1R0-T01	6.2	0.5	1
HF2024-352Y1R3-T01	3.5	0.27	1.3
HF2024-242Y1R7-T01	2.4	0.18	1.7
HF2024-102Y2R0-T01	1	0.2	2
HF2024-601Y3R0-T01	0.6	0.06	3

Measuring equipment of inductance value: LCR meter(HP4261A, HP4263B or equivalent)[f=1kHz]

# **PACKAGING QUANTITIES**

HF2024	800pieces/box

Item	Standard value	Conditions
Rated voltage(V)	80 to 250	50Hz/60Hz
Dielectric withstanding voltage(V)	2000	Between each winding for 1 minute
Insulation resistance $(M\Omega)$	100min.	Between each winding for DC.500V
Temperature rise(°C)	50max.	With line resistance
Operating temperature range(°C)	-20 to +120	Including self-temperature rise
Storage temperature range(°C)	-20 to +85	
Resistance to	260±5°C, 10±1sec	Solder bath method
soldering tenperature*1	350±5°C, 5sec max.	Soldering iron method
Applicable safety standard*2	Electrical Appliance Law ("DENAN")	and Material Safety

<sup>\*1</sup> Pb free solder(Sn-3Ag-0.5Cu)

 $<sup>\</sup>ensuremath{^{*2}}$  However, this product is not recognized by each regulations.



# Closed Magnetic Circuit Core Type HF Series

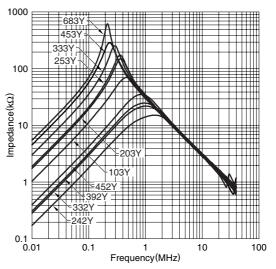
## **FEATURES**

- This series employs two outer magnetic path limbs design with windings on the center magnetic path limb of double-square shaped closed magnetic circuit ferrite core to reduce leakage flux.
- This filter uses the same closed magnetic circuit core as a toroidal core and therefore, even at its compact size, it offers large inductance and suppresses noise up to in high frequency ranges.

# HF2422(DOUBLE-SQUARE SHAPED CLOSED MAGNETIC CIRCUIT CORE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM TYPICAL ELECTRICAL SHAPED CLOSED MAGNETIC CIRCUIT CORE) TYPE

# 26max. 26max. 20max. 20max. 20max. 20max. 20max. 20max. 20max. 4 L1 L2 20max. 4 L2 20max. 4 L1 L2 20max. Weight: 19.5g typ. Recommended hole diameter: Ø1.3 Dimensions in mm

# TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



# **ELECTRICAL CHARACTERISTICS**

Part No.	Inductance (mH)min.	DC resistance (Ω)max.	Rated current lac (A)max.
HF2422-683Y0R4-T01	68	2.3	0.4
HF2422-453Y0R5-T01	45	1.65	0.5
HF2422-333Y0R6-T01	33	1.2	0.6
HF2422-253Y0R8-T01	25	0.88	0.8
HF2422-203Y1R0-T01	20	0.64	1
HF2422-103Y1R2-T01	10	0.38	1.2
HF2422-452Y1R5-T01	4.5	0.19	1.5
HF2422-392Y1R8-T01	3.9	0.15	1.8
HF2422-332Y2R0-T01	3.3	0.11	2
HF2422-242Y2R5-T01	2.4	0.09	2.5

Measuring equipment of inductance value: LCR meter(HP4261A, HP4263B or equivalent)[f=1kHz]

# **PACKAGING QUANTITIES**

HF2422	540pieces/box

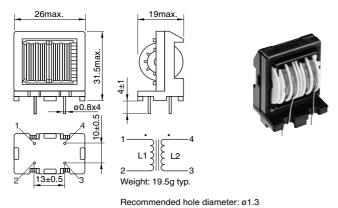
Item	Standard value	Conditions
Rated voltage(V)	80 to 280	50Hz/60Hz
Dielectric withstanding	2000	Between each winding for
voltage(V)	2000	1 minute
Insulation resistance	100min.	Between each winding for
$(M\Omega)$	TOOTHITI.	DC.500V
Temperature rise(°C)	50max.	With line resistance
Operating temperature	-20 to +120	Including self-temperature
range(°C)	-20 10 +120	rise
Storage temperature	-20 to +85	
range(°C)	20 10 100	
Resistance to	260±5°C, 10±1sec	Solder bath method
soldering tenperature*1	350±5°C, 5sec max.	Soldering iron method
Applicable safety	Electrical Appliance and Material Safety	
standard*2	Law ("DENAN"), IEC60065, UL6500, CSA C22.2	

<sup>\*1</sup> Pb free solder(Sn-3Ag-0.5Cu)

<sup>\*2</sup> However, this product is not recognized by each regulations.

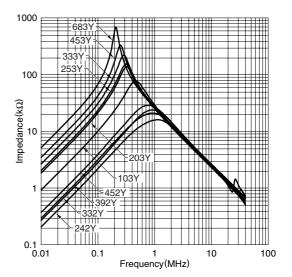
# HF2430(DOUBLE-SQUARE SHAPED CLOSED MAGNETIC CIRCUIT CORE) TYPE

# SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



Dimensions in mm

# TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



## **ELECTRICAL CHARACTERISTICS**

	Inductance	DC	Rated current
Part No.	(mH)min.	resistance	lac
	(1111 1)111111.	$(\Omega)$ max.	(A)max.
HF2430-683Y0R4-T01	68	2.3	0.4
HF2430-453Y0R5-T01	45	1.65	0.5
HF2430-333Y0R6-T01	33	1.2	0.6
HF2430-253Y0R8-T01	25	0.88	0.8
HF2430-203Y1R0-T01	20	0.64	1
HF2430-103Y1R2-T01	10	0.38	1.2
HF2430-452Y1R5-T01	4.5	0.19	1.5
HF2430-392Y1R8-T01	3.9	0.15	1.8
HF2430-332Y2R0-T01	3.3	0.11	2
HF2430-242Y2R5-T01	2.4	0.09	2.5

Measuring equipment of inductance value: LCR meter(HP4261A, HP4263B or equivalent)[f=1kHz]

## **PACKAGING QUANTITIES**

HF2430	400pieces/box
	.00p.0000,00x

Item	Standard value	Conditions
Rated voltage(V)	80 to 280	50Hz/60Hz
Dielectric withstanding	2000	Between each winding for
voltage(V)	2000	1 minute
Insulation resistance	100min.	Between each winding for
$(M\Omega)$	TOOTHIII.	DC.500V
Temperature rise(°C)	50max.	With line resistance
Operating temperature	-20 to +120	Including self-temperature
range(°C)	-20 10 +120	rise
Storage temperature	-20 to +85	
range(°C)	-20 10 +03	
Resistance to	260±5°C, 10±1sec	Solder bath method
soldering tenperature*1	350±5°C, 5sec max.	Soldering iron method
Applicable safety	Electrical Appliance and Material Safety	
standard*2	Law ("DENAN"), IEC60065, UL6500, CSA C22.2	

<sup>\*1</sup> Pb free solder(Sn-3Ag-0.5Cu)

 $<sup>\</sup>ensuremath{^{*2}}$  However, this product is not recognized by each regulations.

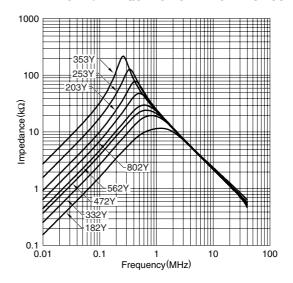


# HF2826(DOUBLE-SQUARE SHAPED CLOSED MAGNETIC CIRCUIT CORE) TYPE

# SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM

# 30.5max. 1 24.0±0.5 3 Weight: 28g typ. Recommended hole diameter: ø1.3 Dimensions in mm

# TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



## **ELECTRICAL CHARACTERISTICS**

	Inductance	DC	Rated current
Part No.	(mH)min.	resistance	lac
	(1111 1)1111111.	$(\Omega)$ max.	(A)max.
HF2826-353Y1R0-T01	35	0.78	1
HF2826-253Y1R2-T01	25	0.56	1.2
HF2826-203Y1R5-T01	20	0.41	1.5
HF2826-123Y1R8-T01	12	0.27	1.8
HF2826-802Y2R0-T01	8	0.18	2
HF2826-562Y2R5-T01	5.6	0.13	2.5
HF2826-472Y2R8-T01	4.7	0.1	2.8
HF2826-332Y3R0-T01	3.3	0.088	3
HF2826-182Y4R0-T01	1.8	0.05	4

Measuring equipment of inductance value: LCR meter(HP4261A, HP4263B or equivalent)[f=1kHz]

# **PACKAGING QUANTITIES**

HF2826	480pieces/box

Item	Standard value	Conditions
Rated voltage(V)	80 to 280	50Hz/60Hz
Dielectric withstanding voltage(V)	2000	Between each winding for 1 minute
Insulation resistance $(M\Omega)$	100min.	Between each winding for DC.500V
Temperature rise(°C)	50max.	With line resistance
Operating temperature range(°C)	-20 to +120	Including self-temperature rise
Storage temperature range(°C)	-20 to +85	
Resistance to	260±5°C, 10±1sec	Solder bath method
soldering tenperature*1	350±5°C, 5sec max.	Soldering iron method
Applicable safety standard*2	Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2	

<sup>\*1</sup> Pb free solder(Sn-3Ag-0.5Cu)

 $<sup>\</sup>ensuremath{^{*2}}$  However, this product is not recognized by each regulations.

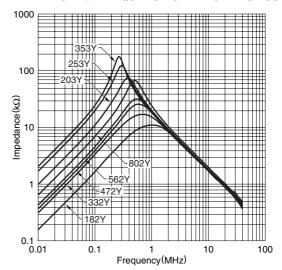


# HF2836(DOUBLE-SQUARE SHAPED CLOSED MAGNETIC CIRCUIT CORE) TYPE

# SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM

# 30.5max. 22max. 30.5max. 22max. 4 90 1 L1 L2 2 Weight: 30g typ. Recommended hole diameter: ø1.2 to 1.3 Dimensions in mm

# TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



## **ELECTRICAL CHARACTERISTICS**

Part No.	Inductance (mH)min.	DC resistance	Rated current lac
		$(\Omega)$ max.	(A)max.
HF2836-353Y1R0-T01	35	0.78	1
HF2836-253Y1R2-T01	25	0.56	1.2
HF2836-203Y1R5-T01	20	0.41	1.5
HF2836-123Y1R8-T01	12	0.27	1.8
HF2836-802Y2R0-T01	8	0.18	2
HF2836-562Y2R5-T01	5.6	0.13	2.5
HF2836-472Y2R8-T01	4.7	0.1	2.8
HF2836-332Y3R0-T01	3.3	0.088	3
HF2836-182Y4R0-T01	1.8	0.05	4

Measuring equipment of inductance value: LCR meter(HP4261A, HP4263B or equivalent)[f=1kHz]

# **PACKAGING QUANTITIES**

HF2836	800pieces/box

Item	Standard value	Conditions	
Rated voltage(V)	80 to 280	50Hz/60Hz	
Dielectric withstanding	2000	Between each winding for	
voltage(V)	2000	1 minute	
Insulation resistance	100min.	Between each winding for	
$(M\Omega)$	TOOTHITI.	DC.500V	
Temperature rise(°C)	50max.	With line resistance	
Operating temperature	-20 to +120	Including self-temperature	
range(°C)	-20 10 +120	rise	
Storage temperature	-20 to +85		
range(°C)	-20 to +03		
Resistance to	260±5°C, 10±1sec	Solder bath method	
soldering tenperature*1	350±5°C, 5sec max.	Soldering iron method	
Applicable safety	Electrical Appliance and Material Safety		
standard*2	Law ("DENAN"), IEC60065, UL6500, CSA C22.2		

<sup>\*1</sup> Pb free solder(Sn-3Ag-0.5Cu)

<sup>\*2</sup> However, this product is not recognized by each regulations.



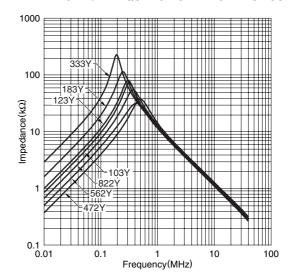
# HF3545(DOUBLE-SQUARE SHAPED CLOSED MAGNETIC CIRCUIT CORE) TYPE

# SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM

# 37max. 26max. 26max. 4 00 1 1 4 00 21±0.5 3 Weight: 65g typ.

Recommended hole diameter: ø1.7 Dimensions in mm

# TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



## **ELECTRICAL CHARACTERISTICS**

Part No.	Inductance (mH)min.	DC	Rated current
		resistance	lac
		$(\Omega)$ max.	(A)max.
HF3545-333Y1R5-T01	33	0.42	1.5
HF3545-223Y1R8-T01	22	0.29	1.8
HF3545-183Y2R0-T01	18	0.23	2
HF3545-153Y2R2-T01	15	0.21	2.2
HF3545-123Y2R5-T01	12	0.17	2.5
HF3545-103Y2R7-T01	10	0.13	2.7
HF3545-822Y3R0-T01	8.2	0.105	3
HF3545-562Y3R5-T01	5.6	0.077	3.5
HF3545-472Y4R0-T01	4.7	0.062	4

 Measuring equipment of inductance value: LCR meter(HP4261A, HP4263B or equivalent)[f=1kHz]

# **PACKAGING QUANTITIES**

HF3545	140pieces/box

Item	Standard value	Conditions	
Rated voltage(V)	80 to 280	50Hz/60Hz	
Dielectric withstanding voltage(V)	2000	Between each winding for 1 minute	
Insulation resistance $(M\Omega)$	100min.	Between each winding for DC.500V	
Temperature rise(°C)	50max.	With line resistance	
Operating temperature range(°C)	-20 to +120	Including self-temperature rise	
Storage temperature range(°C)	-20 to +85		
Resistance to	260±5°C, 10±1sec	Solder bath method	
soldering tenperature*1	350±5°C, 5sec max.	Soldering iron method	
Applicable safety standard*2	Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2		

<sup>\*1</sup> Pb free solder(Sn-3Ag-0.5Cu)

 $<sup>\</sup>ensuremath{^{*2}}$  However, this product is not recognized by each regulations.

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