TF Series

Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type

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.

RATINGS

Item	Standard value	Conditions		
Rated voltage(V)	80 to 280*			
Dielectric withstanding	2000	Between each winding for		
voltage(V)	2000	1 minute		
Insulation resistance	100min.	Between each winding for		
(MΩ)	TOOTTIITI.	1 minute, Edc 500V		
Temperature rise(°C)	45max.*	With line resistance		
Operating temperature	-20 to +120 Including self-tempera			
range(°C)	2010 : 120	rise		
	Japan Electric/Electro	onic Products Control Law,		
Safety standard	UL, CSA and IEC conforted(The safety standard			
	is not acquired with the unit only.)			

- * Except particular items.
- Measuring equipment of inductance value: LCR meter(HP4261A, HP4263B or equivalent)

FEATURES

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

PRODUCT IDENTIFICATION

UF		V		_	□□□Y	$\square R \square$	_	01
(1)	(2)	(3)	(4)		(5)	(6)		(7)

(1)Core shape

UF: U-type core

TF: Toroidal core

HF: Square shaped closed magnetic circuit core type

Double-square shaped closed magnetic circuit core type

- (2) Dimensional code(Length×Height)
- (3)External shape code
- (4)TDK's internal code
- (5)Inductance value

Example) 602: 60µH×102=6mH

(6)Rated current value Example) 2R5: 2.5A

(7)Product management number

SELECTION CHART

Series	Configuration	Туре	Inductance value min.	Rated current (A)	Handling power* L×I ² (mH×A ²)	Weight (g)typ.	Minimum package quantity (pieces/box)
		TF1028S	0.45 to 2.2mH	0.5 to 3	2.5	8	900
	Horizontal types	TF2720B	0.45 to 7mH	2.5 to 10	50	20	400
	(Toroidal core)	TF3524B	0.25 to 10mH	3 to 20	130	42	300
	(Toroldar core)	TF4825S	1, 2mH	10 to 15	200	95	120
		TF6029S	1mH	20 to 30	400	205	70
	Vertical types (Toroidal core)	TF1320S	1 to 4mH	1.5 to 3	9	6.5	1000
TF		TF2628V	0.45 to 7mH	2.5 to 10	50	19.5	700
11		TF3524V	0.25 to 10mH	3 to 20	130	41	320
	Multi-section case types (For high frequency)	TF3329B	8.5 to 15mH	2.5 to 3.5	100	40.5	375
	Vertical types(Toroidal core)	TF2628V-1H	25 to 65µH	6 to 12	3.65	18	700
	(For high frequency)	TF3524V-1H	25 to 120µH	8 to 20	10.8	40	320
	For three phase lines	TF6030T	1 to 7.5mH	5 to 14	160	150	70
	(Toroidal core)	TF6035T	0.2 to 1.6mH	15 to 30	400	160	70

^{*} 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.

TF Series

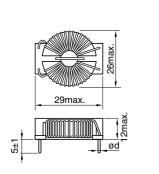
Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type

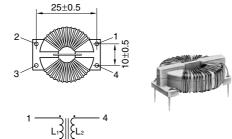
HORIZONAL TYPE TF SERIES

FEATURES

- This series uses a high permeability toroidal ferrite core and therefore provides large inductance with a little number of turns.
- Therefore its stray capacity is small and it keeps the impedance required to effectively suppress high frequency noises.
- Products mounted on a base with fixed leads are easy to insert to circuit boards.

TF1028S(HORIZONTAL TYPE WITH TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM

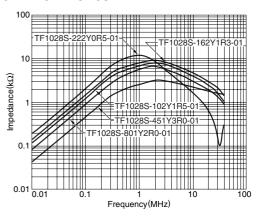




Weight: 8g typ.

Recommended hole diameter: ød+0.5 Dimensions in mm

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (mH)min.	DC resistance (Ω) max.	Rated current (A)max.	Dimensions(mm) ød
TF1028S-222Y0R5-01	2.2	0.2	0.5	0.4
TF1028S-162Y1R3-01	1.6	0.2	1.3	0.4
TF1028S-102Y1R5-01	1	0.1	1.5	0.45
TF1028S-801Y2R0-01	0.8	0.1	2	0.5
TF1028S-451Y3R0-01	0.45	0.06	3	0.6

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

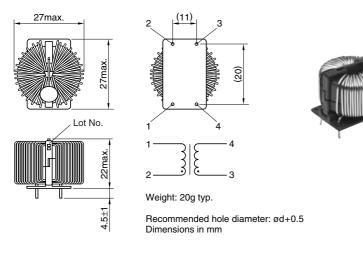
• However, this product is not recognized by each regulations.

TE40000	000-1/
TF1028S	900pieces/box

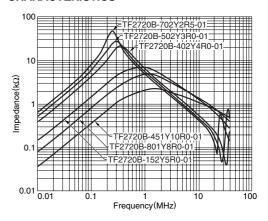
TF Series

Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type

TF2720B(HORIZONTAL TYPE WITH TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (mH)min.	DC resistance (Ω) max.	Rated current (A)max.	Dimensions(mm) ød
TF2720B-702Y2R5-01	7	0.2	2.5	0.6
TF2720B-502Y3R0-01	5	0.15	3	0.65
TF2720B-402Y4R0-01	4	0.1	4	0.7
TF2720B-152Y5R0-01	1.5	0.05	5	0.8
TF2720B-801Y8R0-01	0.8	0.02	8	1
TF2720B-451Y10R0-01	0.45	0.015	10	1.1

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

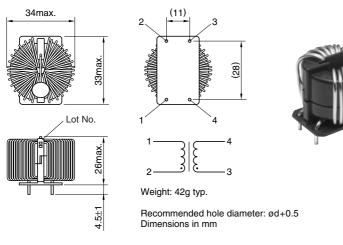
• However, this product is not recognized by each regulations.

TF2720B	400pieces/box

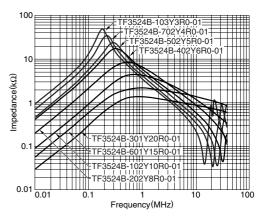
TF Series

Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type

TF3524B(HORIZONTAL TYPE WITH TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Part No.	Inductance	DC resistance	Rated current	Dimensions(mm)
rait No.	(mH)min.	(Ω) max.	(A)max.	ød
TF3524B-103Y3R0-01	10	0.15	3	0.7
TF3524B-702Y4R0-01	7	0.1	4	0.8
TF3524B-502Y5R0-01	5	0.05	5	0.9
TF3524B-402Y6R0-01	4	0.035	6	1
TF3524B-202Y8R0-01	2	0.025	8	1.2
TF3524B-102Y10R0-01	1	0.02	10	1.3
TF3524B-601Y15R0-01	0.6	0.007	15	1.6
TF3524B-301Y20R0-01	0.3	0.005	20	1.8

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

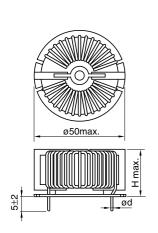
• However, this product is not recognized by each regulations.

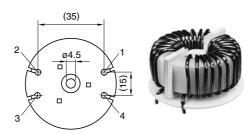
TF3524B	300pieces/box	

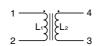
TF Series

Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type

TF4825S(HORIZONTAL TYPE WITH TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



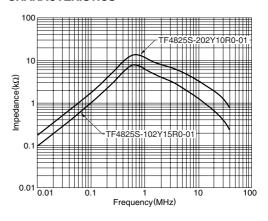




Weight: 95g typ.

Recommended hole diameter: ød+0.5 Dimensions in mm

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Part No.	Inductance	DC resistance	Rated current	Dimensio	Dimensions(mm)	
Fait No.	(mH)min.	$(m\Omega)$ max.	(A)max.	ød	H max.	
TF4825S-202Y10R0-01	2	20	10	1.3	28	
TF4825S-102Y15R0-01	1	7.5	15	1.8	31	

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

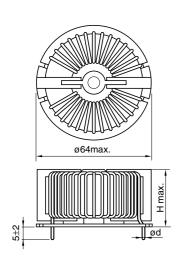
• However, this product is not recognized by each regulations.

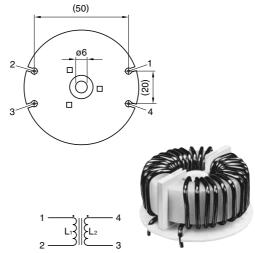
TF4825S	120pieces/box
1540/03	IZUDIECES/DOX

TF Series

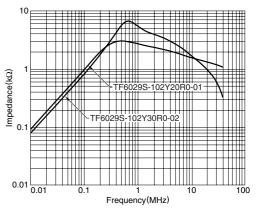
Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type

TF6029S(HORIZONTAL TYPE WITH TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM





TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



Weight: 205g typ.

Recommended hole diameter: $\emptyset d+0.5$ Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Inductance	DC resistance	DC resistance Rated current		Dimensions(mm)	
Fait No.	(mH)min.	$(m\Omega)$ max.	(A)max.	ød	H max.	
TF6029S-102Y20R0-01	1	5	20	2.3	36	
TF6029S-102Y30R0-02	1	4	30	2.6	40	

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

• However, this product is not recognized by each regulations.

TF6029S	70pieces/box	

TF Series

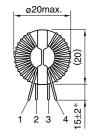
Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type

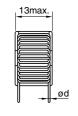
VERTICAL TYPE TF SERIES

FEATURES

- This series uses a high permeability toroidal ferrite core and therefore provides large inductance with a little number of turns.
- Therefore its stray capacity is small and it provides the impedance levels required to effectively suppress high frequency noises.
- Products mounted on a base with fixed leads are easy to insert to circuit boards.

TF1320S(VERTICAL TYPE WITHOUT TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM







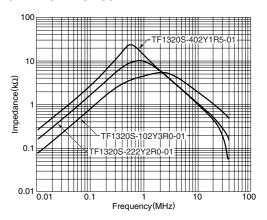


*TF1320S-402Y1R5-01: 5±2

Weight: 6.5g typ.

Recommended hole diameter: ød+0.5 Dimensions in mm

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (mH)min.	DC resistance (Ω) max.	Rated current (A)max.	Dimensions(mm) ød
TF1320S-402Y1R5-01	4	0.2	1.5	0.4
TF1320S-222Y2R0-01	2.2	0.1	2	0.5
TF1320S-102Y3R0-01	1	0.04	3	0.6

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN")

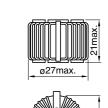
• However, this product is not recognized by each regulations.

TF1320S	1000nieces/box
1 = 1.3205	TUUUDIECES/DOX

TF Series

Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type

TF2628V(VERTICAL TYPE WITH TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM





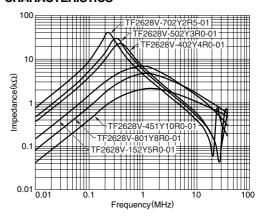




Weight: 20g typ.

Recommended hole diameter: ød+0.5 Dimensions in mm

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Part No.	Inductance	DC resistance	Rated current	Dimensions(mm)
Рап №.	(mH)min.	(Ω) max.	(A)max.	ød
TF2628V-702Y2R5-01	7	0.2	2.5	0.6
TF2628V-502Y3R0-01	5	0.15	3	0.65
TF2628V-402Y4R0-01	4	0.1	4	0.7
TF2628V-152Y5R0-01	1.5	0.05	5	0.8
TF2628V-801Y8R0-01	0.8	0.02	8	1
TF2628V-451Y10R0-01	0.45	0.015	10	1.1

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

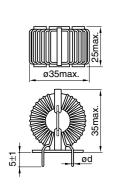
• However, this product is not recognized by each regulations.

TF2628V	700pieces/box

TF Series

Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type

TF3524V(VERTICAL TYPE WITH TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM





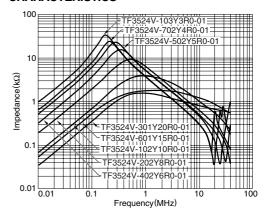




Weight: 41g typ.

Recommended hole diameter: ød+0.5 or more Dimensions in mm

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Part No.	Inductance	DC resistance	Rated current	Dimensions(mm)
Fait No.	(mH)min.	(Ω) max.	(A)max.	ød
TF3524V-103Y3R0-01	10	0.15	3	0.7
TF3524V-702Y4R0-01	7	0.1	4	0.8
TF3524V-502Y5R0-01	5	0.05	5	0.9
TF3524V-402Y6R0-01	4	0.035	6	1
TF3524V-202Y8R0-01	2	0.025	8	1.2
TF3524V-102Y10R0-01	1	0.02	10	1.3
TF3524V-601Y15R0-01	0.6	0.007	15	1.6
TF3524V-301Y20R0-01	0.3	0.005	20	1.8

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

• However, this product is not recognized by each regulations.

TF3524V	320pieces/box

TF Series

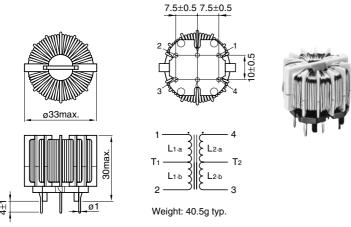
Common Mode Choke Coils(Line Filters) for AC Power Supply Separable Case Type

MULTI-SECTION CASE TYPE (FOR HIGH FREQUENCY) TF SERIES

FEATURES

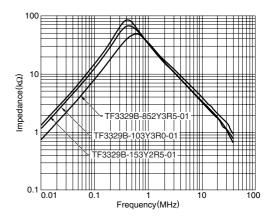
 This series uses six-section windings for each line, which contribute to reduced stray capacity and excellent impedance characteristics in high frequency ranges.

TF3329B(FOR HIGH FREQUENCY) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



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 (A)max.
TF3329B-153Y2R5-01	15	120	2.5
TF3329B-103Y3R0-01	10	100	3
TF3329B-852Y3R5-01	8.5	70	3.5

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

• However, this product is not recognized by each regulations.

TF3329B	375pieces/box

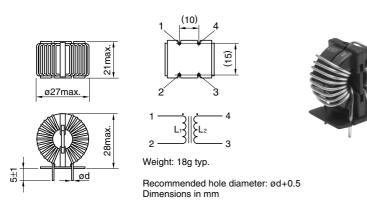
TF Series

Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type

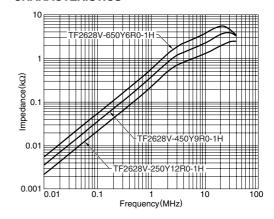
FEATURES

- This series is designed to reduce stray capacity between windings by using a single-layer coil construction on Ni-Zn ferrite cores, which offer excellent high frequency characteristics.
- This series provides exellent noise suppression for high frequency ranges including the FM band.

TF2628V-1H(HORIZONTAL TYPE WITH TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Part No.	Inductance	DC resistance	Rated current	Dimensions(mm)
rait No.	(μH)min.	(Ω) max.	(A)max.	ød
TF2628V-650Y6R0-1H	65	0.02	6	0.8
TF2628V-450Y9R0-1H	45	0.012	9	1.0
TF2628V-250Y12R0-1H	25	0.009	12	1.2

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

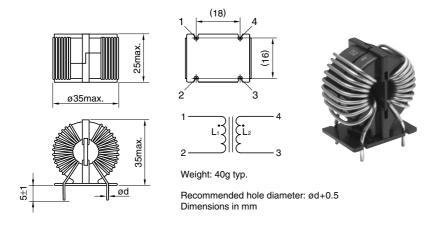
• However, this product is not recognized by each regulations.

TF2628V	700pieces/box

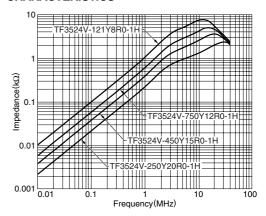
TF Series

Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type

TF3524V-1H(HORIZONTAL TYPE WITH TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Part No.	Inductance	DC resistance	Rated current	Dimensions(mm)
i ait i vo.	(μH)min.	(Ω) max.	(A)max.	ød
TF3524V-121Y8R0-1H	120	0.02	8	1.0
TF3524V-750Y12R0-1H	75	0.01	12	1.3
TF3524V-450Y15R0-1H	45	0.007	15	1.6
TF3524V-250Y20R0-1H	25	0.005	20	1.8

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

• However, this product is not recognized by each regulations.

TF3524V	320pieces/box

TF Series

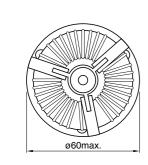
Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type for 3-Phase

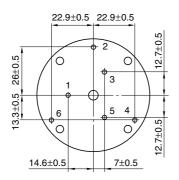
TOROIDAL CORE TYPE FOR THREE PHASE LINES TF SERIES

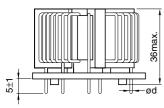
FEATURES

• This series uses a high permeability toroidal ferrite core and can handle heavy currents with fewer number of turns.

TF6030T(HORIZONTAL TYPE WITH TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM





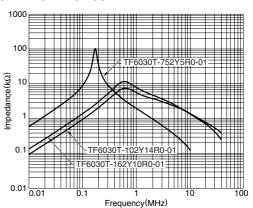




Weight: 150g typ.

Recommended hole diameter: ød+0.5 Dimensions in mm

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (mH)min.	DC resistance (Ω) max.	Rated current (A)max.	Dimensions(mm) ød
TF6030T-752Y5R0-01	7.5	0.1	5	0.9
TF6030T-162Y10R0-01	1.6	0.02	10	1.3
TF6030T-102Y14R0-01	1	0.02	14	1.5

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

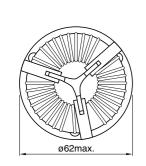
• However, this product is not recognized by each regulations.

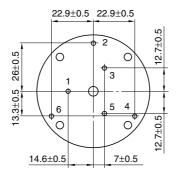
TF6030T	70pieces/box

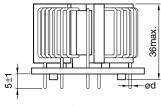
TF Series

Common Mode Choke Coils(Line Filters) for AC Power Supply Toroidal Core Type for 3-Phase

TF6035T(HORIZONTAL TYPE WITH TERMINAL BASE) TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM







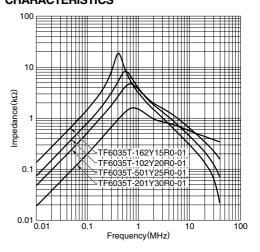




Weight: 160g typ.

Recommended hole diameter: ød+0.5 Dimensions in mm

TYPICAL ELECTRICAL CHARACTERISTICS **IMPEDANCE vs. FREQUENCY CHARACTERISTICS**



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (mH)min.	DC resistance $(m\Omega)$ max.	Rated current (A)max.	Dimensions(mm) ød
TF6035T-162Y15R0-01	1.6	12	15	1.8
TF6035T-102Y20R0-01	1	8	20	2
TF6035T-501Y25R0-01	0.5	5	25	2.3
TF6035T-201Y30R0-01	0.2	3	30	2.6

APPLICABLE SAFETY STANDARD

Electrical Appliance and Material Safety Law ("DENAN"), IEC60065, UL6500, CSA C22.2

• However, this product is not recognized by each regulations.

TF6035T	70pieces/box

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Common Mode Filter Chokes category:

Click to view products by TDK manufacturer:

Other Similar products are found below:

PLT10HH501100PNB PLT10HH401100PNB PLT10HH1026R0PNB TLH10UB 113 0R5 7351V TCM1005-650-2P SS11VL-11050 PE-53914 PE-53913 ACMF-03-650-T H6507NL TCM2010-261-4P CMM21T-300M-N P0353 ACMF-31-T B82722J2102N001 B82732R2142B030 B82790C0225N265 B82790C0105N240 SS24V-R06500-CH DLW43SH510XK2B PLT10HH9016R0PNB P0421T PE-96175NL RN 242- 0.5-02 TCM1005-350-2P HF2836-203Y1R5-T01 UF1815SG-500Y5R0-01 UF1717V-200Y2R0-03