

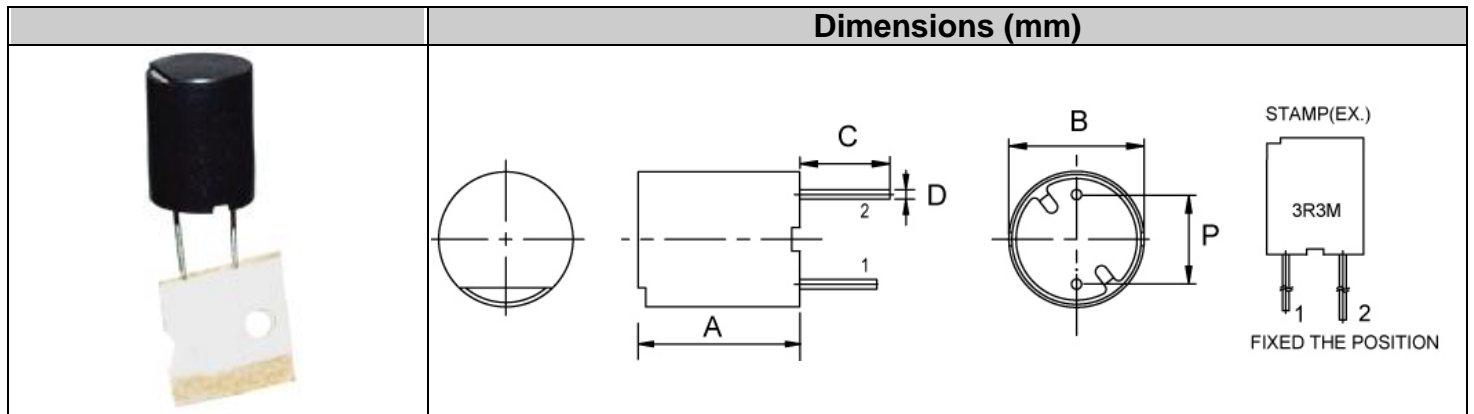
## Индуктивность силовая герметизированная (ТWК) SEALED POWER INDUCTORS

### FEATURES

- I Magnetic shield or plastic shield type inductor.
- I Usable as power supply choke coil.
- I Taped package for automatic insertion.

### APPLICATIONS

- I Ideal for use as a power choke coil in general household appliances such as TV set, video appliances and industrial equipment.
- I Can also be used as peaking coil in filtering applications.
- I Communication equipment.



### ORDERING CODE

$\frac{TXXX}{A} - \frac{101}{B} \frac{K}{C}$	<p>A: Model ( Taping : TXXX ; Bulk : CXXX)          B: Inductance          C: Inductance tolerance symbol          K : ±10% M : ± 20%</p>
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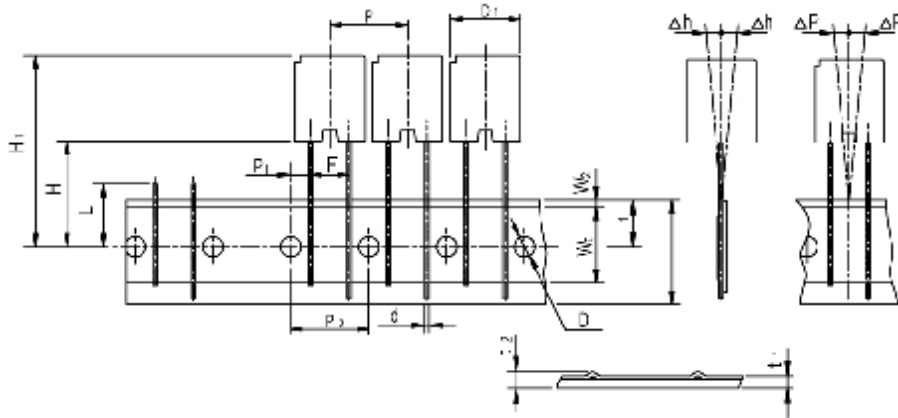
		Dimensions (mm)					TABLE
TWKA	<b>I</b>	9.0	10.0	5.0	0.6	5.0	p.147
TWKB	<b>I</b>	11.0	14.0	5.0	0.6	5.0	p.148
TWKC	<b>I</b>	14.0	17.5	5.0	0.6	5.0	p.149

\* Pin size in Bulk packing.

※ Specifications other than the above will be furnished upon request.



**TAPING SPECIFICATIONS**



				TWKC
Distance between the abscissa and the top of the component body	H <sub>1</sub>	31.0 max.	32.2 max.	37.5max.
				18.0+2.0/0
Component spacing	P	12.7±1.0	12.7±1.0	15.0±1.0
				15.0±0.3
Distance between centers of terminal and sprocket hole	P <sub>1</sub>	3.85±0.7	3.85±0.7	3.75±0.7
				7.5±0.5
Carrier tape width	W	18.0 $\begin{matrix} +1.0 \\ -0.5 \end{matrix}$	18.0 $\begin{matrix} +1.0 \\ -0.5 \end{matrix}$	18.0 $\begin{matrix} +1.0 \\ -0.5 \end{matrix}$
				12.5 min.
Distance between the center of upper edge of carrier tape and sprocket hole	W <sub>1</sub>	9.0±0.5	9.0±0.5	9.0±0.5
				3.0 max.
Diameter of sprocket holes	D	Ø 4.0±0.2	Ø 4.0±0.2	Ø 4.0±0.2
				0.6±0.3
				1.7 max.
Body diameter	D <sub>1</sub>	9.0 max.	11 max.	14 max.
				2.0 max.
Cut off position of defectives	L	11.0 max.	11.0 max.	11.0 max.
				1.0 max.
Lead diameters	d	Ø 0.6±0.1	Ø 0.6±0.1	Ø 0.8±0.1
				1.3 max.

**STRUCTURAL DIAGRAM**

	Materials	
	1.Drum Core	Ferrite Core
2.Case	Plastic / Ferrite	
3.Winding wire	Poly Urethane enameled copper wire	
4.Terminal	Copper ply steel wire (soldered)/Plated copper wire	
5.Adhesive	Epoxy based adhesive	
6.Solder	Solder (High melting point)	

**PACKING**

Ammunition pack, and standard packaging quantities are 500 pieces.

※Specifications other than the above will be furnished upon request.



Specification table of Sealed Power Inductors TWKA

					CURRENT (A)		STAMP
					x		
TWKA-1R0M	1.0±20%	28	140	8.1m	10.8	9.0	1R0M 1R5M
TWKA-2R2M	2.2±20%	26	65	11.5m	6.8	7.2	2R2M 2R7M
TWKA-3R3M	3.3±20%	25	45	14.0m	5.6	6.0	3R3M 3R9M
TWKA-4R7M	4.7±20%	26	30	19.5m	4.3	5.0	4R7M 5R6M
TWKA-6R8M	6.8±20%	36	24	30.5m	4.0	3.7	6R8M 8R2M
TWKA-100K	10±10%	30	21	42.5m	3.4	3.2	100K 120K
TWKA-150K	15±10%	23	16	52.0m	2.9	2.9	150K 180K
TWKA-220K	22±10%	30	13	75.8m	2.3	2.3	220K 270K
TWKA-330K	33±10%	30	10	0.11	2.0	2.0	330K 390K
TWKA-470K	47±10%	33	9.0	0.14	1.7	1.53	470K 560K
TWKA- 680K	68±10%	33	8.0	0.20	1.4	1.23	680K 820K
TWKA- 101K	100±10%	33	6.1	0.30	1.1	1.14	101K 121K
TWKA- 151K	150±10%	42	4.4	0.43	0.9	0.95	151K 181K
TWKA- 221K	220±10%	46	4.0	0.61	0.77	0.70	221K 271K
TWKA- 331K	330±10%	60	3.1	1.0	0.63	0.52	331K 391K
TWKA- 471K	470±10%	60	2.7	1.2	0.54	0.46	471K 561K
TWKA- 681K	680±10%	62	2.3	1.8	0.44	0.40	681K 821K
TWKA- 102K	1000±10%	68	1.7	2.6	0.36	0.31	102K 122K
TWKA- 152K	1500±10%	80	1.4	4.1	0.30	0.25	152K 182K
TWKA- 222K	2200±10%	90	1.2	6.4	0.24	0.20	222K 272K
TWKA- 332K	3300±10%	90	1.0	9.5	0.20	0.18	332K 392K
TWKA- 472K	4700±10%	94	0.90	14.0	0.17	0.16	472K 562K
TWKA- 682K	6800±10%	94	0.70	18.8	0.14	0.11	682K 822K
TWKA- 103K	10000±10%	94	0.60	28.8	0.11	90m	103K 123K
TWKA- 153K	15000±10%	88	0.45	43.4	95m	75m	153K 183K
TWKA- 223K	22000±10%	75	0.36	70.0	80m	60m	223K 273K
TWKA- 333K	33000±10%	65	0.32	91.2	60m	45m	333K

Idc 1: The current when the inductance decreases to 90% of initial value. (Ta=25°C)

Idc 2: The current when the temperature of coils is increased by 40°C. (Ta= 25°C)

The rated current indicates the DC current when the inductance decreased to 90% of its initial value or the DC current when the temperature of coil is increased by 40°C. The smaller one is defined as rated current. (Ta=25°C)

※ Specifications other than the above will be furnished upon request.



Specification table of Sealed Power Inductors TWKB

					CURRENT (A)		STAMP
					x		
TWKB-3R3M	3.3±20%	30	58	18m	10.4	6.4	3R3M 3R9M
TWKB-4R7M	4.7±20%	35	50	21m	8.4	5.2	4R7M 5R6M
TWKB-6R8M	6.8±20%	35	30	26m	7.2	4.3	6R8M 8R2M
TWKB-100K	10±10%	30	20	31m	6.2	3.8	100K 120K
TWKB-150K	15±10%	30	9.8	38m	5.0	3.4	150K 180K
TWKB-220K	22±10%	35	8.0	56m	4.1	2.8	220K 270K
TWKB-330K	33±10%	35	7.2	70m	3.2	2.5	330K 390K
TWKB-470K	47±10%	30	5.7	88m	2.6	2.2	470K 560K
TWKB-680K	68±10%	30	5.2	0.13	2.2	1.82	680K 820K
TWKB-101K	100±10%	30	4.3	0.16	1.84	1.54	101K 121K
TWKB- 151K	150±10%	40	3.2	0.28	1.44	1.13	151K 181K
TWKB- 221K	220±10%	40	2.8	0.35	1.20	0.96	221K 271K
TWKB- 331K	330±10%	40	2.3	0.55	1.04	0.76	331K 391K
TWKB- 471K	470±10%	50	1.8	0.80	0.88	0.67	471K 561K
TWKB- 681K	680±10%	50	1.4	1.13	0.72	0.59	681K 821K
TWKB- 102K	1000±10%	50	1.2	1.56	0.64	0.48	102K 122K
TWKB- 152K	1500±10%	50	1.0	2.16	0.48	0.40	152K 182K
TWKB- 222K	2200±10%	70	0.84	3.48	0.40	0.32	222K 272K
TWKB- 332K	3300±10%	80	0.60	5.50	0.32	0.25	332K 392K
TWKB- 472K	4700±10%	80	0.55	7.56	0.27	0.18	472K 562K
TWKB- 682K	6800±10%	80	0.46	10.6	0.24	0.16	682K 822K
TWKB- 103K	10000±10%	80	0.37	17.0	0.20	0.14	103K 123K
TWKB- 153K	15000±10%	80	0.30	24.6	0.16	0.11	153K 183K
TWKB- 223K	22000±10%	70	0.26	37.2	0.12	92m	223K 273K
TWKB- 333K	33000±10%	50	0.21	52.8	95m	75m	333K 393K
TWKB- 473K	47000±10%	50	0.19	75.6	80m	62m	473K 563K
TWKB- 683K	68000±10%	20	0.14	115	60m	50m	683K 823K
TWKB- 104K	100000±10%	-	0.11	192	50m	42m	104K 124K
TWKB- 154K	150000±10%	-	0.09	308	40m	30m	154K

Idc 1: The current when the inductance decreases to 90% of initial value. (Ta=25°C)

Idc 2: The current when the temperature of coils is increased by 40°C. (Ta= 25°C)

The rated current indicates the DC current when the inductance decreased to 90% of its initial value or the DC current when the temperature of coil is increased by 40°C. The smaller one is defined as rated current. (Ta=25°C)

※Specifications other than the above will be furnished upon request.

Телефон в Москве +7 (499) 500 94 02;

Телефон в Минске +375 (29) 707 79 46;



### Specification table of Sealed Power Inductors TWKC

					CURRENT (A)		STAMP
					x		
TWKC-2R7M	2.7±20%	35	77.4	12.9m	15.3	6.8	2R7M
-							3R3M
TWKC-4R7M	4.7±20%	43	61.3	15.3m	13.0	6.4	4R7M
-							5R6M
TWKC-6R8M	6.8±20%	53	46.0	19.3m	11.4	6.0	6R8M
-							8R2M
TWKC-100K	10±10%	45	24.7	23.3m	9.2	5.4	100K
-							120K
TWKC-150K	15±10%	41	14.1	27.8m	7.6	4.4	150K
-							180K
TWKC-220K	22±10%	40	7.5	33.7m	6.1	4.2	220K
-							270K
TWKC-330K	33±10%	31	6.9	42.4m	5.0	3.9	330K
-							390K
TWKC-470K	47±10%	25	5.6	52.8m	4.0	3.3	470K
-							560K
TWKC-680K	68±10%	31	4.2	79.3m	3.2	2.5	680K
-							820K
TWKC-101K	100±10%	31	3.8	114m	2.7	2.0	101K
-							121K
TWKC- 151K	150±10%	35	2.8	162m	2.1	1.6	151K
-							181K
TWKC- 221K	220±10%	38	2.3	243m	1.8	1.3	221K
-							271K
TWKC- 331K	330±10%	46	1.8	367m	1.5	1.0	331K
-							391K
TWKC- 471K	470±10%	36	1.6	470m	1.2	0.94	471K
-							561K
TWKC- 681K	680±10%	38	1.3	653m	1.0	0.80	681K
-							821K
TWKC- 102K	1000±10%	58	1.0	1.1	0.80	0.62	102K
-							122K
TWKC- 152K	1500±10%	59	0.92	1.5	0.71	0.52	152K
-							182K
TWKC- 222K	2200±10%	70	0.73	2.4	0.58	0.40	222K
-							272K
TWKC- 332K	3300±10%	60	0.63	3.0	0.48	0.37	332K
-							392K
TWKC- 472K	4700±10%	64	0.53	4.3	0.40	0.30	472K
-							562K
TWKC- 682K	6800±10%	70	0.43	6.2	0.34	0.25	682K
-							822K
TWKC- 103K	10000±10%	64	0.38	8.4	0.28	0.20	103K
-							123K
TWKC- 153K	15000±10%	74	0.29	16	0.22	0.16	153K
-							183K
TWKC- 223K	22000±10%	63	0.23	24	0.18	0.12	223K
-							273K
TWKC- 333K	33000±10%	53	0.19	39	0.15	95m	333K
-							393K
TWKC- 473K	47000±10%	25	0.14	62	0.12	75m	473K
-							563K
TWKC- 683K	68000±10%	18	0.12	93	0.10	65m	683K
-							823K
TWKC- 104K	100000±10%	7	0.10	120	85m	55m	104K

Idc 1: The current when the inductance decreases to 90% of initial value. (Ta=25°C)

Idc 2: The current when the temperature of coils is increased by 40°C. (Ta= 25°C)

The rated current indicates the DC current when the inductance decreased to 90% of its initial value or the DC current when the temperature of coil is increased by 40°C. The smaller one is defined as rated current. (Ta=25°C)

※ Specifications other than the above will be furnished upon request.

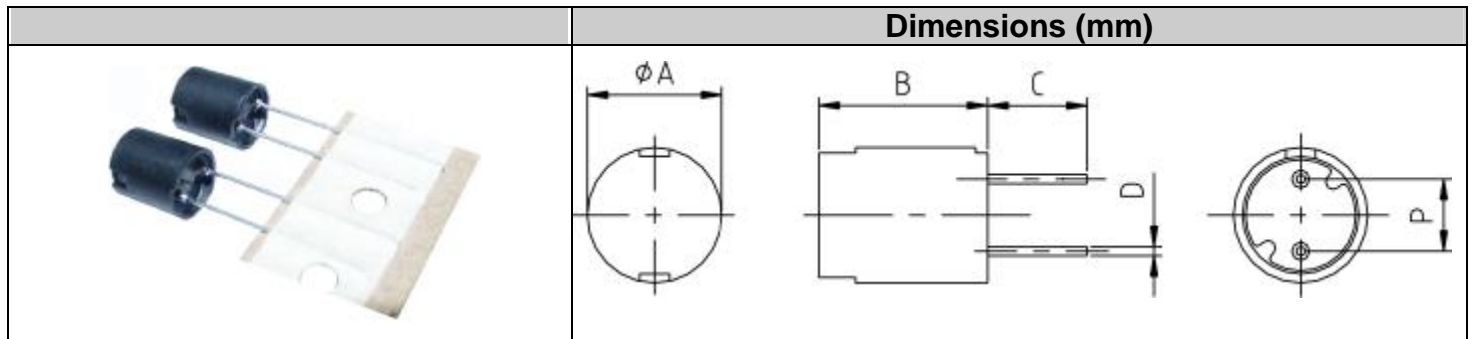


## FEATURES

- I Magnetic shield or plastic shield type inductor.
- I Usable as power supply choke coil.
- I Taped package for automatic insertion.

## APPLICATIONS

- I Ideal for use as a power choke coil in general household appliances such as TV set, video appliances and industrial equipment.
- I Can also be used as peaking coil in filtering applications.
- I Communication equipment.



## ORDERING CODE

$\frac{TXXX}{A} - \frac{M}{B} \frac{101}{C} \frac{K}{D}$	<p>A: Model ( Taping : TXXX ; Bulk : CXXX)          B: M = Magnetic Shielding          C: Inductance          D: Inductance tolerance symbol</p>
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		Dimensions (mm)					TABLE
TWP7	<b>I</b>	7.3	11	5.0	0.6	5.0	-
TWP8	<b>I</b>	8.3	9.7	5.0	0.6	5.0	p.152
TWP9	<b>I</b>	9.0	8.3	5.0	0.6	5.0	p.153
TPAD**	<b>I</b>	10.5	13.5	5.0	0.8	5.0	p.154
TPDG**	<b>I</b>	13.5	16.5	5.0	0.8	7.5	p.155
TWP8-M	<b>I</b>	8.7	10.8	5.0	0.6	5.0	-
TWPA-M	<b>I</b>	10.5	9.0	5.0	0.6	5.0	-

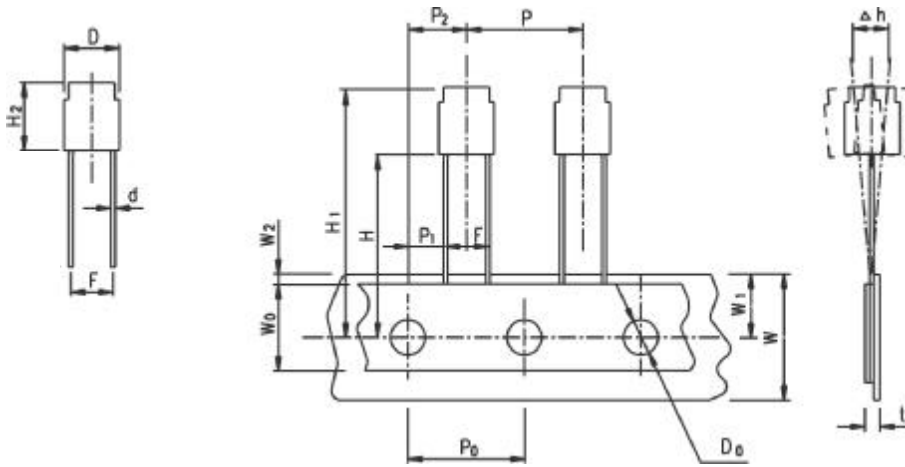
Note: \* In Bulk packing.

\*\* Terminals are copper ply steel wire and soldered.

※ Specifications other than the above will be furnished upon request.



## TAPING SPECIFICATIONS



Dimensions (mm)							
						-	TWPA-M
D±0.5	7.3	8.3	9.0	10.5	13.5	8.7	10.5
							29.5
H <sub>2</sub> max	11.5	10.2	8.8	14.0	17.0	11.3	9.5
							18.0
P±1.0	12.7	12.7	12.7	12.7	15.0	12.7	12.7
							12.7
P <sub>1</sub> ±0.7	3.85	3.85	3.85	3.85	3.75	3.85	3.85
							6.35
F±0.5	5.0	5.0	5.0	5.0	7.5	5.0	5.0
							0.6
Δh±2.0	0	0	0	0	0	0	0
							18.0
W <sub>0</sub> min	12.5	12.5	12.5	12.5	12.5	12.5	12.5
							9.0
W <sub>2</sub> max	3.0	3.0	3.0	3.0	3.0	3.0	3.0
							4.0

## STRUCTURAL DIAGRAM

		Materials
	1. Drum Core	Ferrite Core
	2. Case	Plastic / Ferrite
	3. Winding wire	Poly Urethane enameled copper wire
	4. Terminal	Copper ply steel wire (soldered)/Plated copper wire
	5. Adhesive	Epoxy based adhesive
	6. Solder	Solder (High melting point)

## PACKING

Ammunition pack, and standard packaging quantities are 1000 pieces.

※Specifications other than the above will be furnished upon request.







## Specification table of Sealed Power Inductors TWP9

			DCR W Max			Measuring Frequency
						7.96MHz
						7.96MHz
						7.96MHz
						7.96MHz
						7.96MHz
						7.96MHz
						7.96MHz
						7.96MHz
						7.96MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						2.52MHz
						796kHz
						796kHz
						796kHz
						796kHz
						796kHz
						796kHz
						796kHz
						796kHz
						796kHz
						796kHz
						796kHz
						252kHz
						252kHz
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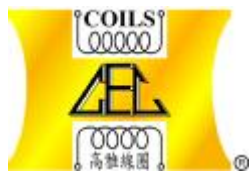
\* Specifications other than the above will be furnished upon request.



### Specification table of Sealed Power Inductors TPAD

	Inductance At 1KHz (μH)				d		Measuring Frequency
-							7.96MHz
-							7.96MHz
-							7.96MHz
-							7.96MHz
-							7.96MHz
-							7.96MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							2.52MHz
-							796kHz
-							796kHz
-							796kHz
-							796kHz
-							796kHz
-							796kHz
-							796kHz
-							796kHz
-							796kHz
-							796kHz
-							796kHz
-							796kHz
-							252kHz
-							252kHz
TPAD-152K	1500	50	0.83	2.7	0.40	0.30	252kHz
-							252kHz
-							252kHz
-							252kHz
-							252kHz
-							252kHz
-							252kHz
-							252kHz
-							252kHz
-							252kHz
-							252kHz
-							252kHz
-							0.12
-							0.11
-							0.09
-							0.08
-							0.075
-							0.06
-							0.056
-							0.053
TPAD-473K	47000	40	0.12	96	0.075	0.05	L: 1 kHz Q: 79.6kHz
-						0.036	
TPAD-683K	68000	30	0.095	200	0.071	0.035	
-						0.033	L: 1kHz Q: 25.2kHz
TPAD-104K	100000	30	0.085	240	0.058	0.031	
-						0.030	
TPAD-154K	150000	30	0.69	300	0.048	0.028	

※ Specifications other than the above will be furnished upon request.



Specification table of Sealed Power Inductors TPDG

					u		Measuring Frequency
TPDG-100K					7.6	4.5	2.52MHz
TPDG-150K	15	140	12	0.028	6.2	4.0	2.52MHz
TPDG-220K	22	100	7.6	0.035	4.9	3.4	2.52MHz
TPDG-330K	33	100	6.9	0.043	4.1	3.2	2.52MHz
TPDG-470K	47	70	5.6	0.052	3.5	2.8	2.52MHz
TPDG-680K	68	50	4.4	0.070	3.0	2.4	2.52MHz
TPDG-101K	100	50	3.3	0.12	2.2	2.0	796kHz
TPDG-151K	150	50	2.6	0.19	1.9	1.5	796kHz
TPDG-221K	220	40	2.2	0.23	1.5	1.3	796kHz
TPDG-331K	330	30	1.8	0.35	1.3	1.1	796kHz
TPDG-471K	470	30	1.5	0.43	1.1	0.90	796kHz
TPDG-681K	680	30	1.2	0.61	0.95	0.80	796kHz
TPDG-102K	1000	30	1.0	1.2	0.74	0.60	252kHz
TPDG-152K	1500	40	0.83	1.8	0.60	0.45	252kHz
TPDG-222K	2200	40	0.70	2.2	0.51	0.40	252kHz
TPDG-332K	3300	40	0.60	3.4	0.41	0.33	252kHz
TPDG-472K	4700	40	0.43	4.7	0.39	0.28	252kHz
TPDG-682K	6800	30	0.38	5.6	0.31	0.25	252kHz
							L:1 kHz Q:79.6kHz

Note: \* Inductance change is within 10% at the superposition of DC current.  
\* Temperature rise of core surface is less than 20°C while direct current is applied.

※Specifications other than the above will be furnished upon request.