

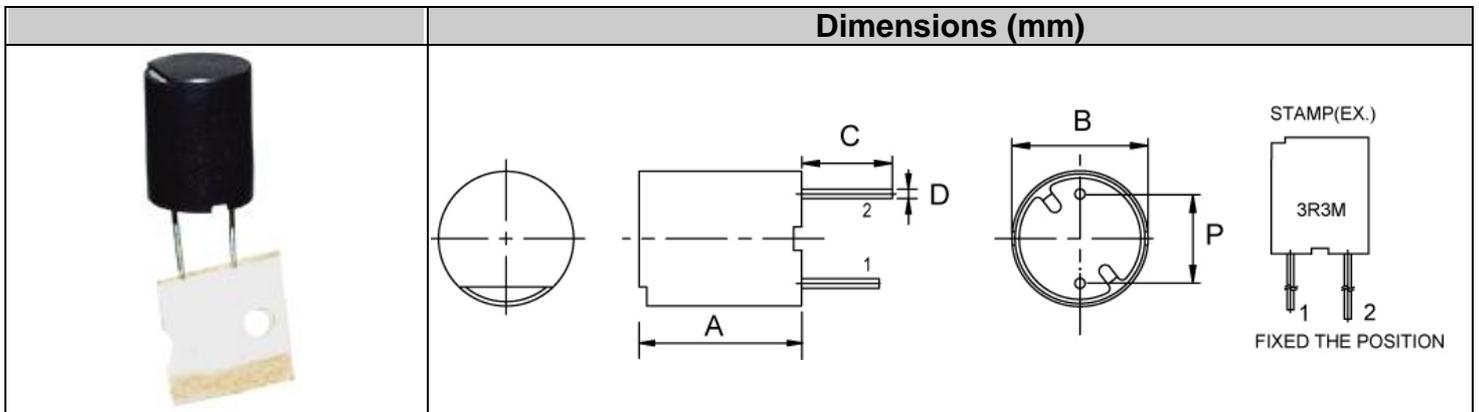
## Индуктивность силовая герметизированная (ТWК) SEALED POWER INDUCTORS

### 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

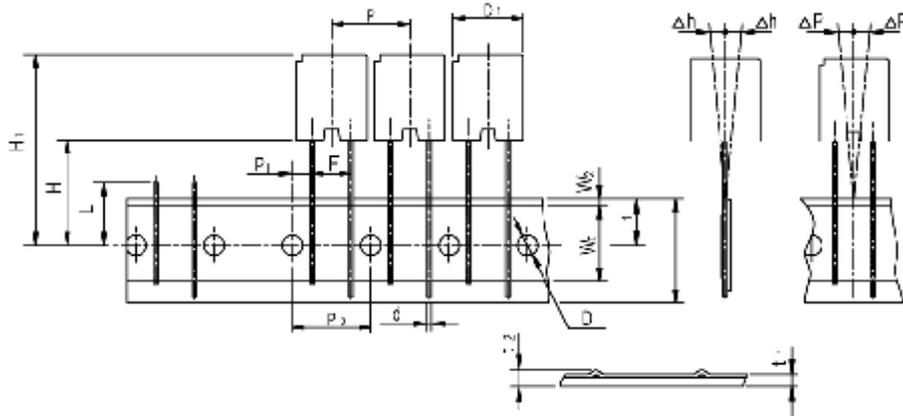
$\frac{TXXX}{A} - \frac{101}{B} \frac{K}{C}$	<p>A: Model ( Taping : TXXX ; Bulk : CXXX)          B: Inductance          C: Inductance tolerance symbol          K : ±10% M : ± 20%</p>
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		Dimensions (mm)					TABLE
TWKA	<b>I</b>	9.0	10.0	5.0	0.6	5.0	p.147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

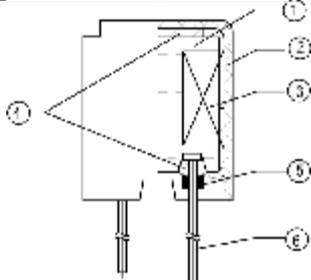
※ Specifications other than the above will be furnished upon request.

### 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 <sup>+1.0</sup> / <sub>-0.5</sub>	18.0 <sup>+1.0</sup> / <sub>-0.5</sub>	18.0 <sup>+1.0</sup> / <sub>-0.5</sub>
				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

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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)

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Телефон в Минске +375 (29) 707 79 46;



### Specification table of Sealed Power Inductors TWKC

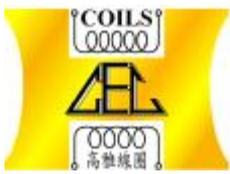
					CURRENT (A)		STAMP
					x		
TWKC-2R7M	2.7±20%	35	77.4	12.9m	15.3	6.8	2R7M
-							3R3M
TWKC-4R7M	4.7±20%	43	61.3	15.3m	13.0	6.4	4R7M
-							5R6M
TWKC-6R8M	6.8±20%	53	46.0	19.3m	11.4	6.0	6R8M
-							8R2M
TWKC-100K	10±10%	45	24.7	23.3m	9.2	5.4	100K
-							120K
TWKC-150K	15±10%	41	14.1	27.8m	7.6	4.4	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

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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.

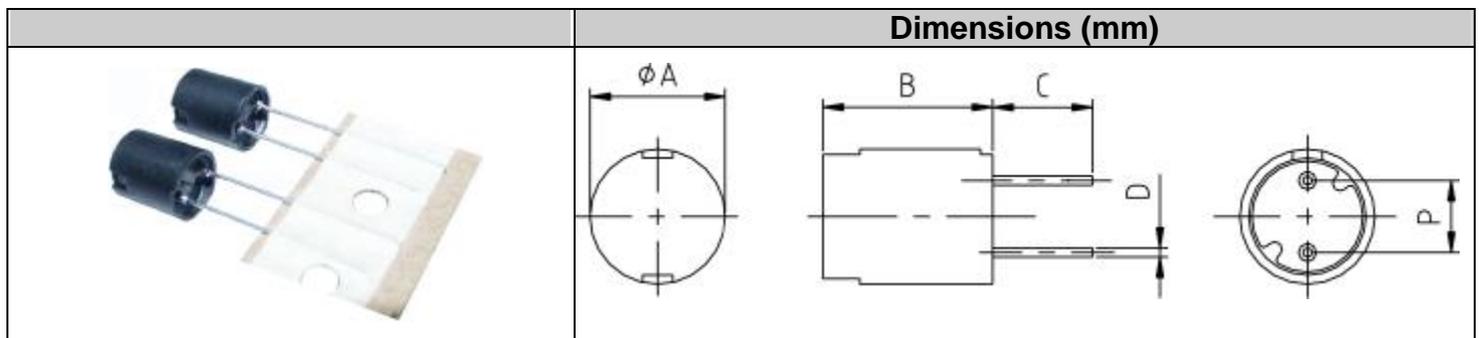


## FEATURES

- 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

$\frac{TXXX}{A} - \frac{M}{B} \frac{101}{C} \frac{K}{D}$	A: Model ( Taping : TXXX ; Bulk : CXXX) B: M = Magnetic Shielding C: Inductance D: Inductance tolerance symbol
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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	-

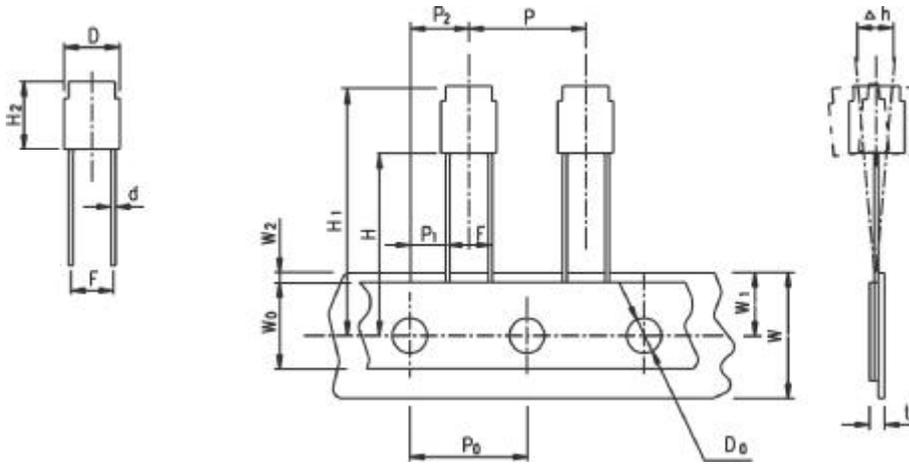
Note: \* In Bulk packing.

\*\* 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.



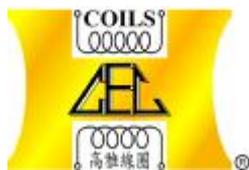
### Specification table of Sealed Power Inductors TWP8

	Inductance uH	Q Min.	DCR W Max.	DCI A Max.	SRF MHz Min	Measuring Frequency
TWP8-1R0□	1.0	80		3.800	75.0	7.96MHz
TWP8-1R5□	1.5	80	0.014	3.400	65.0	7.96MHz
TWP8-2R2□	2.2	80	0.017	3.000	55.0	7.96MHz
TWP8-2R7□	2.7	80	0.019	2.800	48.0	7.96MHz
TWP8-3R3□	3.3	80	0.021	2.600	40.0	7.96MHz
TWP8-3R9□	3.9	80	0.024	2.300	35.0	7.96MHz
TWP8-4R7□	4.7	80	0.027	2.000	30.0	7.96MHz
TWP8-5R6□	5.6	70	0.030	1.900	25.0	7.96MHz
TWP8-6R8□	6.8	70	0.035	1.800	23.0	7.96MHz
TWP8-8R2□	8.2	70	0.040	1.700	20.0	7.96MHz
TWP8-100□	10	70	0.046	1.600	17.0	2.52MHz
TWP8-120□	12	70	0.052	1.500	14.0	2.52MHz
TWP8-150□	15	70		1.400	13.0	2.52MHz
TWP8-180□	18	70	0.070	1.350	12.0	2.52MHz
TWP8-220□	22	70	0.080	1.250	11.0	2.52MHz
TWP8-270□	27	60	0.10	1.180	10.0	2.52MHz
TWP8-330□	33	60	0.11	1.100	9.00	2.52MHz
TWP8-390□	39	60	0.12	1.050	8.20	2.52MHz
TWP8-470□	47	60	0.15	0.950	7.50	2.52MHz
TWP8-560□	56	50	0.18	0.880	7.00	2.52MHz
TWP8-680□	68	50	0.22	0.800	6.50	2.52MHz
TWP8-820□	82	50	0.26	0.750	6.00	2.52MHz
TWP8-101□	100	25	0.34	0.650	5.00	796kHz
TWP8-121□	120	25	0.38	0.600	4.50	796kHz
TWP8-151□	150	25		0.550	4.00	796kHz
TWP8-181□	180	25	0.52	0.520	3.70	796kHz
TWP8-221□	220	25	0.65	0.480	3.40	796kHz
TWP8-271□	270	25	0.78	0.440	3.20	796kHz
						796kHz
TWP8-391□	390	25	1.10	0.350	2.60	796kHz
TWP8-471□	470	25	1.40	0.320	2.40	796kHz
TWP8-561□	560	25		0.280	2.30	796kHz
TWP8-681□	680	25	2.00	0.250	2.10	796kHz
TWP8-821□	820	25	2.20	0.230	1.90	796kHz
TWP8-102□	1000	70	3.10	0.200	1.60	252kHz
TWP8-122□	1200	70	3.60	0.180	1.40	252kHz
TWP8-152□	1500	70	4.20	0.160	1.30	252kHz
TWP8-182□	1800	70	5.50	0.150	1.15	252kHz
TWP8-222□	2200	70	6.50	0.130	1.05	252kHz
TWP8-272□	2700	70	8.10	0.120	0.95	252kHz
TWP8-332□	3300	70	9.20	0.110	0.90	252kHz
TWP8-392□	3900	70	10.5	0.100	0.80	252kHz
TWP8-472□	4700	70	14.5	0.090	0.70	252kHz
TWP8-562□	5600	70		0.080	0.60	252kHz
TWP8-682□	6800	70	18.5	0.075	0.55	252kHz
TWP8-822□	8200	70	25.0	0.070	0.50	252kHz
TWP8-103□	10000	70	30.0	0.060	0.45	L: 1 kHz Q: 79.6kHz
TWP8-123□	12000	70	42.0	0.055	0.40	
TWP8-153□	15000	70	47.0	0.045	0.36	
TWP8-183□	18000	70	65.0	0.040	0.32	
TWP8-223□	22000	70	72.0	0.035	0.30	
TWP8-273□	27000	70	105	0.030	0.27	
TWP8-333□	33000	70	120	0.025	0.24	

※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.