Discontinu	ie Issue Date	Last Purchas	e Order Date	Last Shipment Date	•		
May.1	4, 2024	March.3	31, 2026	December.31, 2026	6 * Please r	efer to our Web	o site about replacement information.
.,	, -		,				· · · · · · · · · · · · · · · · · · ·
IN	DUCI	r o r s					⊗TDK
nductors	for power	circuits					
Vound fe	-						
	ries (for au	tomotivo)					RoHS REACH Halogen Lead Free Free
	1165 (101 au	(onotive)					
AEC-0	2200						
SLH1	2575	o-H ty	pe				
		-	•			Product Portal	Search Simulation Model Selection Guide Tech Library Tech Note
FEATU	JRES						
			a du atau fau				
-	-	-		power circuits.			
	ict lineup all		-				
Opera	ating temper	ature range	: -40 to +12	25°C (including self	-temperature	rise)	
APPLI	CATION						
		ed equipmer	nt (FCM, airt	bags, headlights, e	lectronic pow	er steering	meters ABS other)
		ed equipmer	nt (ECM, airt	bags, headlights, e	lectronic pow	er steering,	meters, ABS, other)
		ed equipmer	nt (ECM, airt	bags, headlights, e	lectronic pow	er steering,	meters, ABS, other)
OAuton				bags, headlights, e	lectronic pow	er steering,	meters, ABS, other)
Auton	NUMBER	CONSTRU					
Auton	notive-relate	CONSTRU		bags, headlights, e	lectronic pow	er steering, 8R2	meters, ABS, other)
Auton	NUMBER	CONSTRU		- 1R2	N	8R2	- н
Auton	NUMBER 125	CONSTRU	ICTION T Packaging	- 1R2	N	8R2 <sup>定格?</sup> 流	- H Internal
Auton	NUMBER	CONSTRU		- 1R2	N	8R2	- н
Auton	NUMBER 125	CONSTRU	ICTION T Packaging	- 1R2	N	8R2 <sup>定格?</sup> 流	- H Internal
Auton	NUMBER 125 L×W×Hdin 12.5×12.5	CONSTRU 75 mensions x7.5 mm	ICTION T Packaging style	- 1R2 Inductance (μH)	N	8R2 <sup>定格?</sup> 流	- H Internal
Auton	NUMBER 125 L×W×Hdin 12.5×12.5	CONSTRU 75 mensions ×7.5 mm	Packaging style	- 1R2 Inductance (μH) N TABLE	N Inductance tolerance	8R2 <sup>定格?</sup> 流	- H Internal code
Auton	NUMBER 125 L×W×Hdin 12.5×12.5 ACTERIST	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring	ICTION T Packaging style	- 1R2 Inductance (μH) N TABLE	N Inductance tolerance	8R2 <sup>定格?</sup> 流	- H Internal
Auton	NUMBER 125 L×W×Hdin 12.5×12.5 ACTERIST	CONSTRU 75 mensions ×7.5 mm	Packaging style	- 1R2 Inductance (μΗ) N TABLE nce Rated cur	N Inductance tolerance	8R2 定格? 流 (A)	- H Internal code Part No.
Auton	NUMBER 125 L×W×Hdin 12.5×12.5 ACTERIST	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	Packaging style	- 1R2 Inductance (μH) NTABLE nce Rated cur	N Inductance tolerance	8R2 定格? 流 (A)	Part No.
Auton PART SLF Series name CHAR	NUMBER 125 L×W×Hdin 12.5×12.5 ACTERIST LM fre ance (kł	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	Packaging style CIFICATIO DC resistan (Ω)	- 1R2 Inductance (μH) NTABLE nce Rated cur Isat (A)max.	N Inductance tolerance	8R2 定格? 流 (A) at Iten \)typ. (A)t	Part No.
Auton PART SLF Series name CHAR	NUMBER 125 L×W×Hdin 12.5×12.5 ACTERIST LM fre ance (kH ⁄o 1	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	CTION T Packaging style CIFICATIO DC resistan (Ω) 5.1m±20%	- 1R2 Inductance (μH) NTABLE nce Rated cur Isat (A)max.	N Inductance tolerance	8R2 定格? 流 (A) at iten ()typ. (A)t 7 8.2	Part No. Part No. SLE12575T-1R2N8R2-H
Auton PART SLF Series name CHARA	NUMBER 125 L×W×Hdin 12.5×12.5 ACTERIST LM fre ance (kH <sup>7</sup> / <sub>0</sub> 1	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	Packaging style CIFICATIO DC resistan (Ω) 5.1m±20% 7.4m±20%	- 1R2 Inductance (μH) NTABLE nce Rated cur Jsat (A)max. δ 13 δ 10	N Inductance tolerance	8R2 定格? 流 (A) at iten A)typ. (A)t 7 8.2 7 7	Part No. Part No. SLF12575T-1R2N8R2-H SLF12575T-2R7N7R0-H
Auton PART SLF Series name CHARA CHARA 2 ±309 .7 ±309 .9 ±309	NUMBER 125 125 125 ACTERIST ACTERIST LM fre ance (kl <sup>7</sup> / <sub>0</sub> 1 <sup>7</sup> / <sub>0</sub> 1	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	CTION T Packaging style CIFICATIO DC resistan (Ω) 5.1m±20% 7.4m±20% 10.4m±20%	- 1R2 Inductance (μH) NTABLE nce Rated cur Jsat (A)max. δ 13 δ 10 % 9	N Inductance tolerance	8R2 定格? 流 (A) at Iten ()typ. (A)t 7 8.2 7 4 6.7	Part No. Part No. SLF12575T-1R2N8R2-H SLF12575T-2R7N7R0-H SLF12575T-3R9N6R7-H
Auton Auton PART Series name CHARA UH) Toler 2 ±309 .7 ±309 .6 ±309	NUMBER 125 125 125 ACTERIST ACTERIST Model M	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	Packaging style CIFICATIO DC resistan (Ω) 5.1m±20% 7.4m±20% 10.4m±20%	- 1R2 Inductance (μH) NTABLE nce Rated cur Isat (A)max. δ 13 δ 10 % 9 % 7.8	N Inductance tolerance	8R2 定格? 流 (A) at Iten (A) typ. (A)t 7 8.2 7 4 6.7 2 6.3	Part No. Part No. SLF12575T-1R2N8R2-H SLF12575T-2R7N7R0-H SLF12575T-3R9N6R7-H SLF12575T-5R6N6R3-H
Auton PART PART Series name CHARA H) Toler 2 ±309 7 ±309 9 ±309 6 ±309 8 ±309	NUMBER 125 125 125 ACTERIST ACTERIST Modeling Manual Manual Manua	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	CTION T Packaging style CIFICATIO DC resistan (Ω) 5.1m±20% 7.4m±20% 10.4m±20% 11.6m±20% 13.1m±20%	- 1R2 Inductance (μH) NTABLE nce Rated cur Isat (A)max. δ 13 δ 10 % 9 % 7.8 % 7.2	N Inductance tolerance	8R2 定格? 流 (A) at Iten A)typ. (A)t 7 8.2 7 7 4 6.7 2 6.3 5.9	Part No. Part No. SLF12575T-1R2N8R2-H SLF12575T-2R7N7R0-H SLF12575T-3R9N6R7-H SLF12575T-3R9N6R7-H SLF12575T-5R6N6R3-H SLF12575T-6R8N5R9-H
Auton PART PART Series name CHARA  (H) Toler 2 ±309 .7 ±309 .9 ±309 .6 ±309 .8 ±309 0 ±209	NUMBER 125 125 125 ACTERIST ACTERIST Modeling Manual Manual Manua	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	CTION T Packaging style CIFICATIO DC resistan (Ω) 5.1m±20% 7.4m±20% 10.4m±20% 11.6m±20% 13.1m±20% 15.6m±20	- 1R2 Inductance (μH) NTABLE nce Rated cur Isat (A)max. δ 13 δ 10 % 9 % 7.8 % 7.2 % 5.5	N Inductance tolerance rrent*	8R2 定格? 流 (A) at Iten (A) 7 8.2 7 7 4 6.7 2 6.3 5.9 1 5.4	Part No. Part No. SLF12575T-1R2N8R2-H SLF12575T-2R7N7R0-H SLF12575T-3R9N6R7-H SLF12575T-3R9N6R7-H SLF12575T-5R6N6R3-H SLF12575T-6R8N5R9-H SLF12575T-100M5R4-H
Auton Auton PART SEries name CHARA	notive-relate NUMBER 125 125 ACTERIST ACTERIST ACTERIST M fre ance (kH % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	CTION T Packaging style CIFICATIO DC resistan (Ω) 5.1m±20% 7.4m±20% 10.4m±20% 11.6m±20% 13.1m±20% 13.1m±20% 13.6m±20% 18.4m±20%	- 1R2 Inductance (μH) NTABLE nce Rated cur Isat (A)max. δ 13 δ 10 % 9 % 7.8 % 7.2 % 5.5 % 4.7	N Inductance tolerance	8R2 定橋? 流 (A) at Iten (A) typ. (A)t 7 8.2 7 7 4 6.7 2 6.3 5.9 1 5.4 6 5	Part No. Part No. Part No. SLF12575T-1R2N8R2-H SLF12575T-2R7N7R0-H SLF12575T-3R9N6R7-H SLF12575T-3R9N6R7-H SLF12575T-5R6N6R3-H SLF12575T-6R8N5R9-H SLF12575T-100M5R4-H SLF12575T-100M5R4-H SLF12575T-150M4R7-H
Auton Auton PART Series name CHARA CHARA C2 ±30% C3 ±30% C4 ±20% C4 ±20\% C4 ±2	notive-relate NUMBER ( 125 L×W×Hdii 12.5×12.5 ACTERIST LM fre ance (kH /0 1 /0 1	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	CTION T Packaging style CIFICATIO DC resistan (Ω) 5.1m±20% 7.4m±20% 10.4m±20% 11.6m±20% 13.1m±20% 15.6m±20% 18.4m±20% 26.3m±20%	- 1R2 Inductance (μH) NTABLE nce Rated cur Isat (A)max. δ 13 δ 10 % 9 % 7.8 % 7.2 % 5.5 % 4.7 % 4	N Inductance tolerance	8R2 定橋? 流 (A) at Iten (A) typ. (A)t 7 8.2 7 7 4 6.7 2 6.3 5.9 1 5.4 6 5 2 4	Part No. Part No. Part No. SLF12575T-1R2N8R2-H SLF12575T-2R7N7R0-H SLF12575T-3R9N6R7-H SLF12575T-3R9N6R7-H SLF12575T-6R8N5R9-H SLF12575T-6R8N5R9-H SLF12575T-100M5R4-H SLF12575T-100M5R4-H SLF12575T-120M4R0-H
Auton Auton PART Series name CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHAR	notive-relate NUMBER ( 125 L×W×Hdii 12.5×12.5 ACTERIST CM fre ance (kl /o 1 /o 1	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	CTION T Packaging style CIFICATIO DC resistan (Ω) 5.1m±20% 7.4m±20% 10.4m±20% 13.1m±20% 13.1m±20% 13.1m±20% 13.6m±20% 18.4m±20% 26.3m±20 39.5m±20%	- 1R2 Inductance (μH) NTABLE nce Rated cur Isat (A)max. δ 10 % 9 % 7.8 % 7.2 % 5.5 % 4.7 % 4 % 3.2	N Inductance tolerance rrent* Is (/ 2 11 14 12 17 14 12 17 14 12 17 14 12 17 14 12 17 14 12 17 14 12 17 14 15 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17	8R2 定橋? 流 (A) at Iten (A) typ. (A)t 7 8.2 7 7 4 6.7 2 6.3 5.9 1 5.4 6 5 2 4	Part No. Part No. SLF12575T-1R2N8R2-H SLF12575T-2R7N7R0-H SLF12575T-3R9N6R7-H SLF12575T-3R9N6R7-H SLF12575T-6R8N5R9-H SLF12575T-6R8N5R9-H SLF12575T-100M5R4-H SLF12575T-150M4R7-H SLF12575T-120M4R0-H
Auton Auton PART Series name CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHAR	notive-relate NUMBER ( 125 125 125 12.5×12.5 ACTERIST CM fre ance (kH /o 1 /o 1	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	CTION T Packaging style CIFICATIO DC resistan (Ω) 5.1m±20% 7.4m±20% 10.4m±20% 11.6m±20% 13.1m±20% 15.6m±20% 18.4m±20% 26.3m±20%	- 1R2 Inductance (μH) NTABLE nce Rated cur Isat (A)max. δ 13 δ 10 % 9 % 7.8 % 7.2 % 5.5 % 4.7 % 4 % 3.2 % 2.7	N Inductance tolerance rrent* Is (/ 2 11 14 12 17 14 12 17 14 12 17 14 12 17 14 12 17 14 12 17 14 12 17 14 12 17 14 14 14 14 14 14 14 14 14 14 14 14 14	8R2 定格? 流 (A) at Iten (A) (A) (A) (A) (A) (A) (A) (A)	Part No. Part No. Part No. SLF12575T-1R2N8R2-H SLF12575T-2R7N7R0-H SLF12575T-3R9N6R7-H SLF12575T-3R9N6R7-H SLF12575T-6R8N5R9-H SLF12575T-6R8N5R9-H SLF12575T-100M5R4-H SLF12575T-100M5R4-H SLF12575T-150M4R7-H SLF12575T-330M3R2-H SLF12575T-330M3R2-H SLF12575T-470M2R7-H
Auton Auton PART Series name CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHAR	notive-relate NUMBER 125 125 ACTERIST ACTERIST M fre ance (kH /0 1 /0 1 /	CONSTRU 75 mensions ×7.5 mm TICS SPEC leasuring quency	CTION T Packaging style CIFICATIO DC resistant (Ω) 5.1m±20% 7.4m±20% 10.4m±20% 13.1m±20%	- 1R2 Inductance (μH) NTABLE nce Rated cur Isat (A)max. δ 13 δ 10 % 7.8 % 7.8 % 7.2 % 5.5 % 4.7 % 4 % 3.2 % 2.7 % 2	N Inductance tolerance rrent* (2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8R2 定格? 流 (A) at Iten (A) (A) (A) (A) (A) (A) (A) (A)	Part No. Part No. Part No. SLF12575T-1R2N8R2-H SLF12575T-2R7N7R0-H SLF12575T-3R9N6R7-H SLF12575T-3R9N6R7-H SLF12575T-6R8N5R9-H SLF12575T-6R8N5R9-H SLF12575T-100M5R4-H SLF12575T-150M4R7-H SLF12575T-220M4R0-H SLF12575T-330M3R2-H SLF12575T-330M3R2-H SLF12575T-470M2R7-H

Rated current lsat 4284A+42841A+42842C

0.175±20%

0.258±20%

0.34±20%

0.60±20%

Itemp: When based on the temperature increase (temperature increase of 40°C by self heating)

Isat(max.): When based on the inductance change rate (10% below the initial value) Isat(typ.): When based on the inductance change rate (30% below the initial value)

**Product No.** 

VP-2941A

4194A

1.5

1.3

0.8

1

2.3

1.9

1.6

1.3

1.6

1.3

1.1

0.8

SLF12575T-151M1R5-H

SLF12575T-221M1R3-H

SLF12575T-331M1R0-H

SLF12575T-471MR80-H

\* Equivalent measurement equipment may be used.

1

1

±20%

±20%

±20%

±20%

Measurement equipment Measurement item

DC resistance

150

220

330

470 \* Isa



 Please be sure to request delivery specifications that providefurther details on the features and specifications of the products for proper and safe use
 (1/5)
 Please note that the contents may change without any prior notice due to reasons such as upgrading.

 20240802

Manufacturer

Panasonic

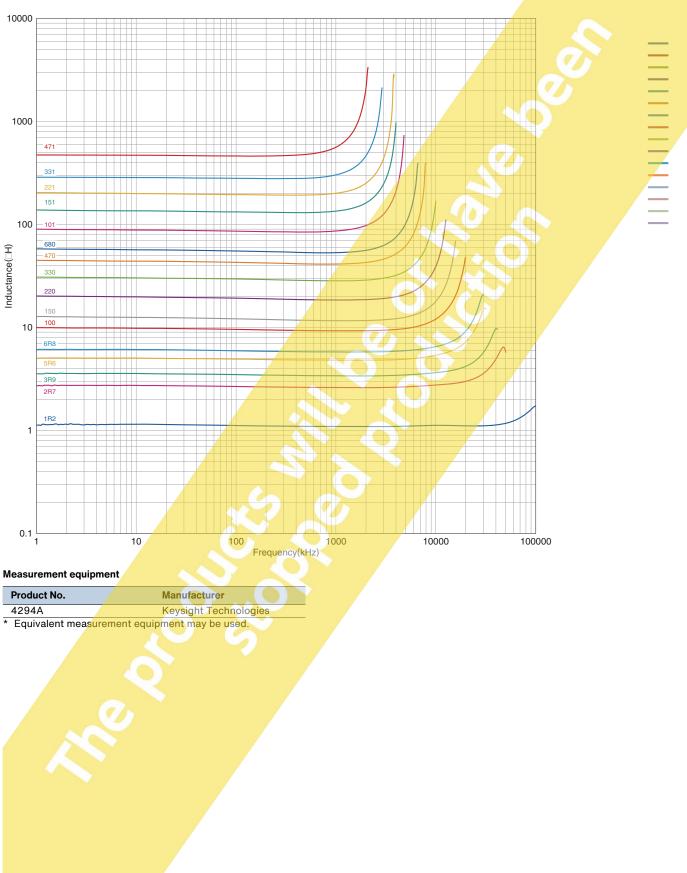
Keysight Technologies

Keysight Technologies

#### **公TDK**

# SLF12575-H type

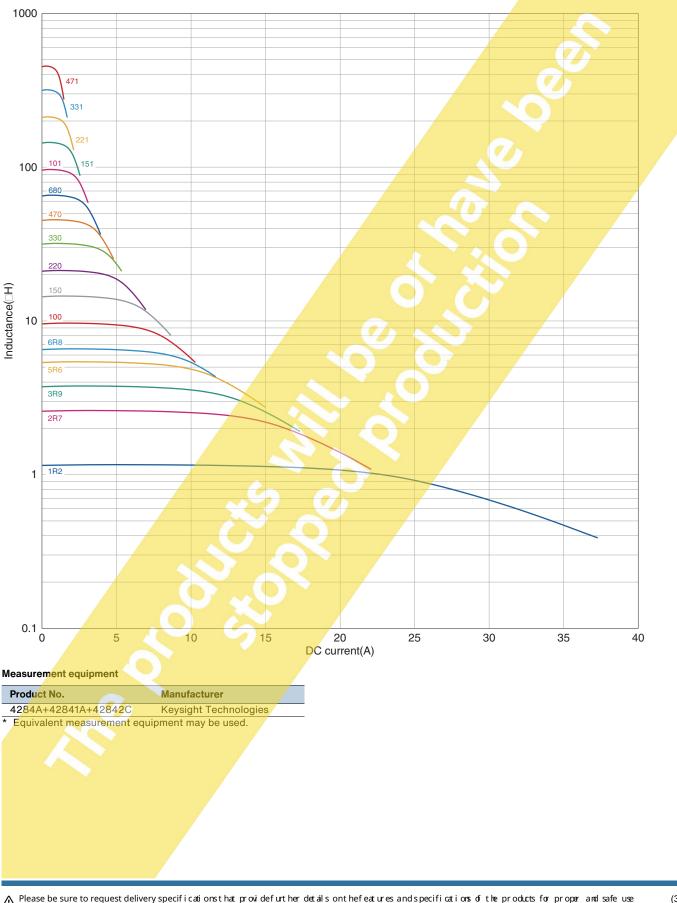
#### L FREQUENCY CHARACTERISTICS



▲ Please be sure to request delivery specifications that providefurt her details on the features and specifications of the products for proper and safe use (2/5) Please note that the contents may change without any prior notice due to reasons such as upgrading.

## SLF12575-H type

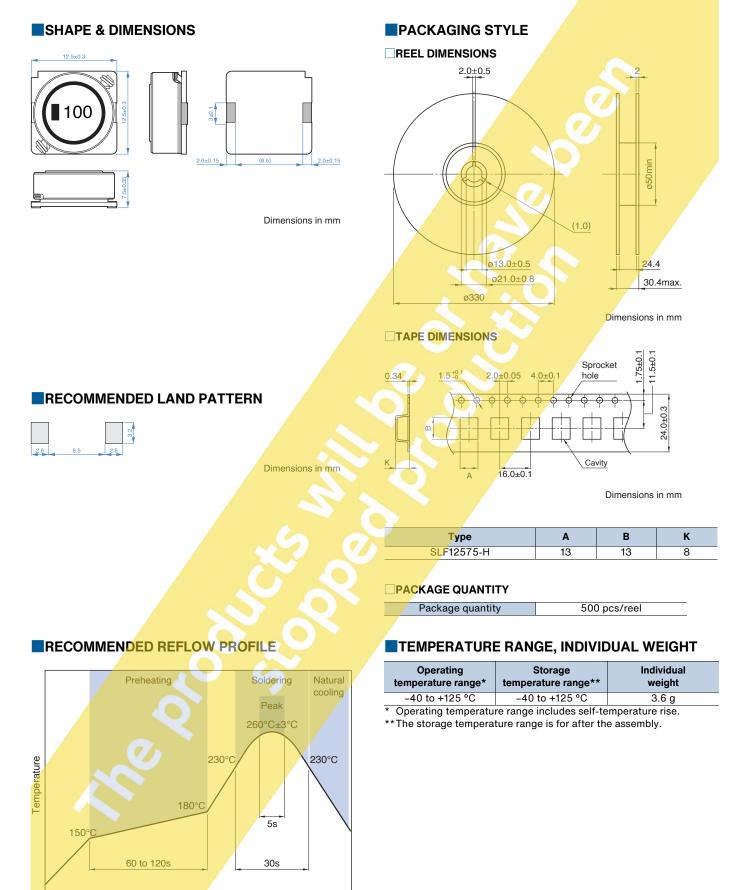
#### **INDUCTANCE VS. DC BIAS CHARACTERISTICS**



 Please be sure to request delivery specifications that providefurt her details on the features and specifications of the products for proper and safe use
 (3/5)

 Please note that the contents may change without any prior notice due to reasons such as upgrading.
 20240802

## SLF12575-H type



▲ Please be sure to request delivery specifications that providefurt her details on the features and specifications of the products for proper and safe use (4/5) Please note that the contents may change without any prior notice due to reasons such as upgrading.

Time

20240802

#### INDUCTORS

#### ⊗TDK

### **REMINDERS FOR USING THESE PRODUCTS**

Before using these products, be sure to request the delivery specifications.

## SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products

### REMINDERS

OThe storage period is within 6 months. Be sure to follow the storage conditions (temperature: 5 to 30°C, humidity: 10 to 75% RH or less).

If the storage period elapses, the soldering of the terminal electrodes may deteriorate.

- ODo not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- OBefore soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Osoldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Owhen embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.
- Ouse a wrist band to discharge static electricity in your body through the grounding wire.
- ODo not expose the products to magnets or magnetic fields.
- Ob not use for a purpose outside of the contents regulated in the delivery specifications.
- OThe products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/ or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment

- (7) Transportation control equipment
- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

inductor\_automotive\_power\_slf12575-h\_en