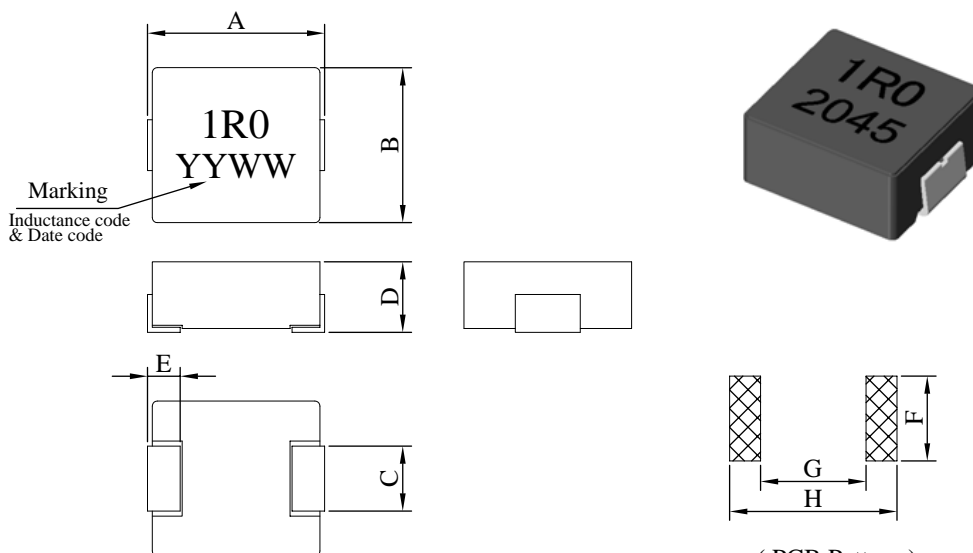


SPECIFICATION FOR APPROVAL

REF :

PROD. NAME	Shielded Smd Power Inductor	ABC'S DWG NO.		GSSM0640□□□□2□U	
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I . Configuration and dimensions :



Unit : mm

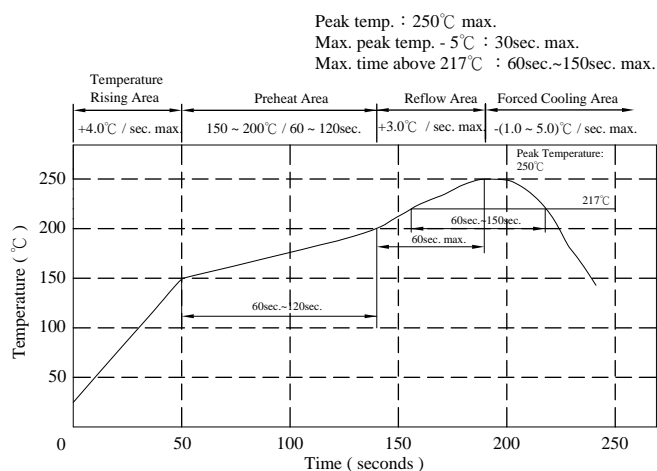
A	B	C	D	E	F	G	H
7.30 ±0.30	6.60 ±0.30	3.00 ±0.3	3.80 ±0.2	1.80 ±0.3	3.50 ref.	2.50 ref.	8.40 ref.

II . Description :

- a . Powder molding construction
- b . Magnetically shielded
- c . Wire : Polyester wire or equivalent
- d . Products comply with RoHS' requirements
- e . Halogen free

III . General specification :

- a . Storage temp. : -40°C ----+125°C
- b . Operating temp. : -40°C ----+125°C
(Temp. rise included)
- c . Resistance to solder heat : 260°C .10 sec.



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SPECIFICATION FOR APPROVAL

REF :

PROD. NAME	Shielded Smd Power Inductor	ABC'S DWG NO.	GSSM0640□□□□2□U		
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IV . Electrical characteristics :

DWG No.	Inductance (μ H)	Isat (A) typ.	Irms (A) typ.	RDC (m Ω)	
				max.	typ.
GSSM0640R12Y2AU	0.12 \pm 30%	64.00	32.00	1.00	0.70
GSSM0640R15Y2AU	0.15 \pm 30%	55.00	30.00	1.20	0.90
GSSM0640R22M2AU	0.22 \pm 20%	34.00	25.00	2.10	1.85
GSSM0640R33M2AU	0.33 \pm 20%	34.00	25.00	2.60	2.00
GSSM0640R36M2AU	0.36 \pm 20%	31.00	25.00	3.10	2.70
GSSM0640R47M2AU	0.47 \pm 20%	28.00	23.00	3.40	3.00
GSSM0640R56M2AU	0.56 \pm 20%	26.00	20.00	4.30	3.80
GSSM0640R68M2AU	0.68 \pm 20%	24.00	16.00	4.50	4.10
GSSM0640R82M2AU	0.82 \pm 20%	23.00	15.00	6.30	5.50
GSSM06401R0M2AU	1.00 \pm 20%	22.00	14.00	8.00	6.80
GSSM06401R5M2AU	1.50 \pm 20%	20.00	12.00	12.00	10.00
GSSM06402R2M2AU	2.20 \pm 20%	14.00	9.00	14.00	11.50
GSSM06403R3M2AU	3.30 \pm 20%	12.00	8.00	27.00	24.00
GSSM06404R7M2AU	4.70 \pm 20%	11.00	6.00	32.50	28.00
GSSM06405R6M2AU	5.60 \pm 20%	9.00	5.00	38.00	33.00
GSSM06406R8M2AU	6.80 \pm 20%	8.50	4.50	50.00	44.00
GSSM06408R2M2AU	8.20 \pm 20%	8.00	4.50	64.00	55.00
GSSM0640100M2AU	10.00 \pm 20%	7.00	4.00	72.00	64.00
GSSM0640150M2AU	15.00 \pm 20%	3.50	3.00	90.00	80.00

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SPECIFICATION FOR APPROVAL

REF :

PROD. NAME	Shielded Smd Power Inductor	ABC'S DWG NO.	GSSM0640□□□□2□U		
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IV . Electrical characteristics :

DWG No.	Inductance (μH)	Isat (A) typ.	Irms (A) typ.	RDC (mΩ)	
				max.	typ.
GSSM0640220M2AU	22.00 ± 20%	3.50	2.50	145.00	120.00
GSSM0640330M2AU	33.00 ± 20%	3.20	1.80	210.00	180.00
GSSM0640470M2AU	47.00 ± 20%	2.50	1.80	350.00	295.00

- 1). Electrical specifications at 25°C
- 2). Measured frequency of inductance is 100 kHz / 1V
- 3). Isat base on $\Delta L/L0A = 30\%$ typ. (Approximately transient current)
- 4). Irms base on Temp. rise 40°C typ.

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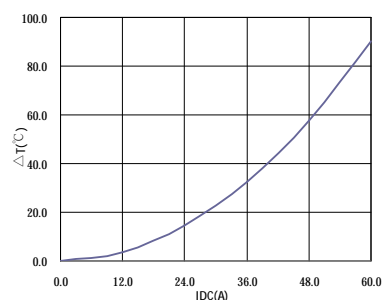
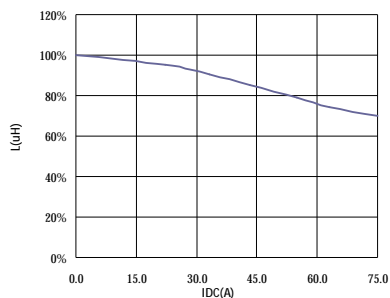
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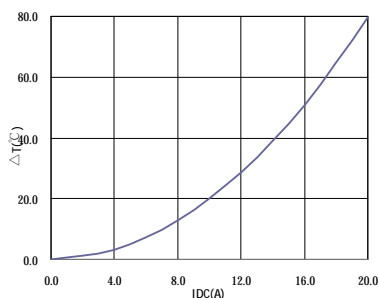
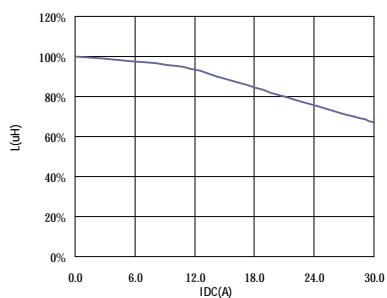
PROD. NAME	Shielded Smd Power Inductor	ABC'S DWG NO.	GSSM0640□□□□2□U		
		REV.	20201106-A	PAGE	4

V . Curve :

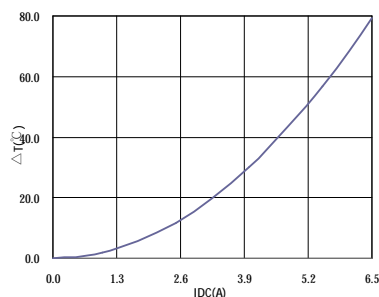
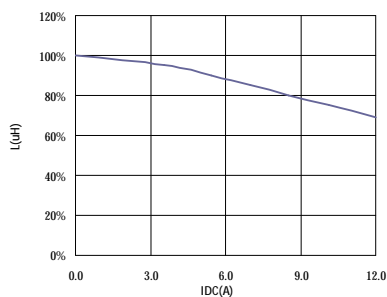
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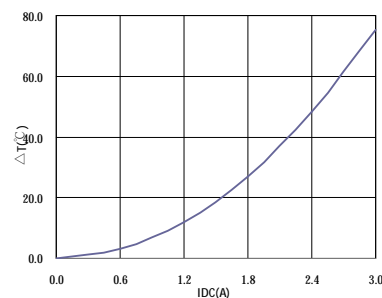
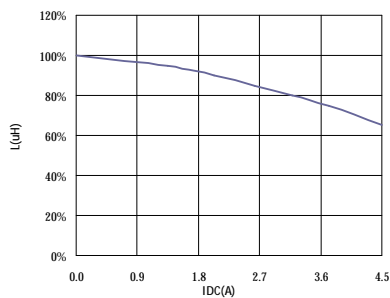
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GSSM0640100M2AU



GSSM0640470M2AU



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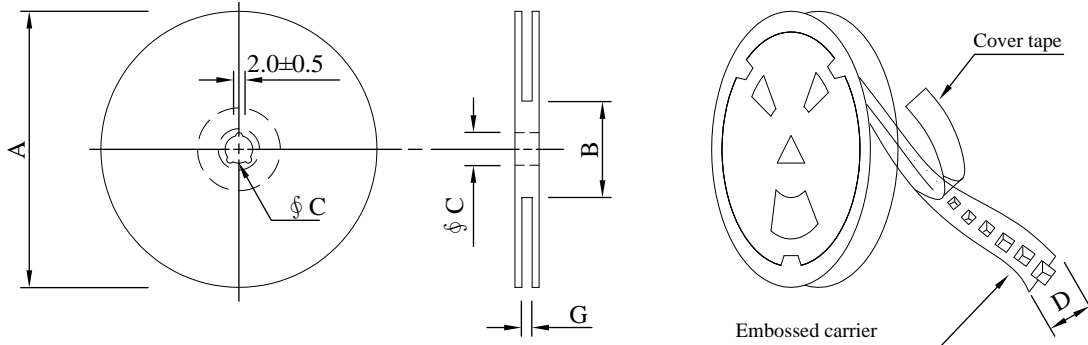
千如電子集團
ABC-ATEC ELECTRONICS GROUP

SPECIFICATION FOR APPROVAL

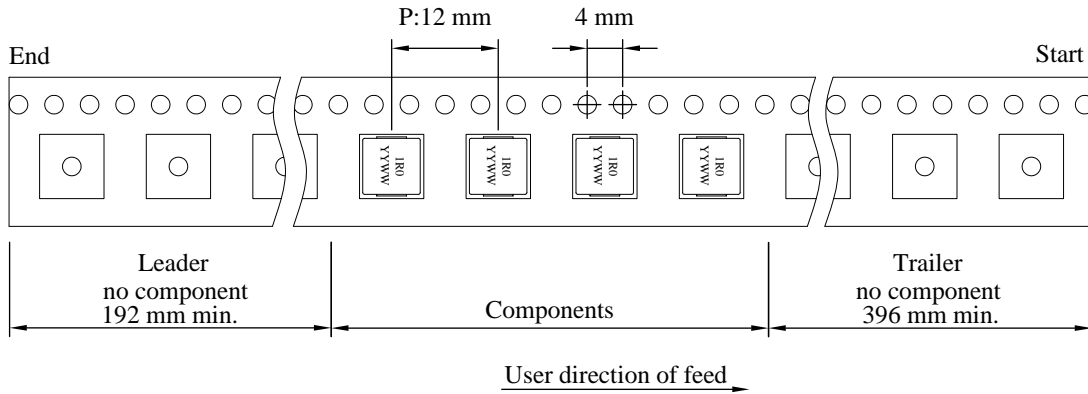
REF :

PROD. NAME	Shielded Smd Power Inductor	ABC'S DWG NO.	GSSM0640□□□□2□U		
		REV.	20201105-A	PAGE	5

VI . Packaging information :
(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:mm

Style	A	B	C	D	G
13 - 16	330	100 ±0.2	13 ^{+0.5} _{-0.2}	16	16.4 ⁺² ₋₀

(3) Q'TY & G.W. Per package

Code	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (g)	Style	Q'TY (pcs)	G.W. (kg)	Size (cm)
A	1,000	1,100	13 - 16	12,000	18.0	38 x 37 x 22

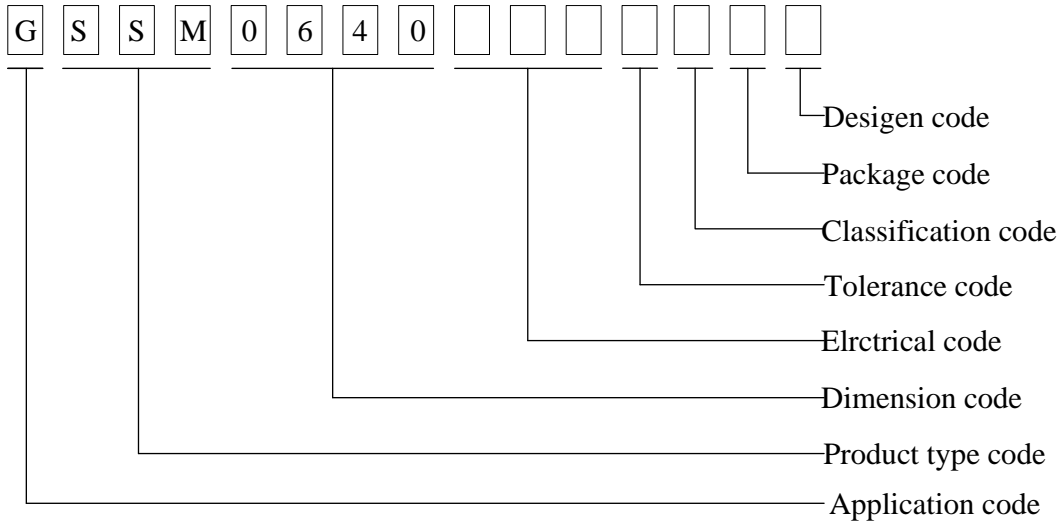
AR-001A

SPECIFICATION FOR APPROVAL

REF :

PROD. NAME	Shielded Smd Power Inductor	ABC'S DWG NO.		GSSM0640□□□□2□U	
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VI . Drawing number expression :



Package Information

Code	Inner package	Inner package Q'TY	Remark
A	T / R (Reel package)	1,000 PCS	

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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded Smd Power Inductor	ABC'S DWG NO.	GSSM0630□□□□2□U		
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VIII . Reliability test :

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 125±2℃ 2.Time:96±2 hours.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
2.Temperature Cycling	JESD22-A 104	1.Temperature: -40℃ ~ +125℃ 2.Number of cycle:100 cycle 3.Dwell time:30 minutes	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature : 85±2 ℃ 2.Humidity: 85% RH. 3.Time:96±2 Hours	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
4.Operational Life	JESD22-A 108	1.Temperature: 125℃ (Temp. rise included) 2.Time:96±2 hours. 3.Rated current	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
5.External Visual	JESD22-B 101 & MIL-STD-883 Method 2009	Inspect product constructions, marking and workmanship.	1.No pollution on the surface of products. 2.Clear marking. 3.No crack.
6.Physical Dimensions	JESD22-B 100	Verify physical dimensions to the applicable product detail specification.	Per product specification standard
7.Resistance to solvents	MIL-STD-202 Method 215	Immerse into solvent for 3±0.5 minutes & brush 10 times for 3 cycles.	1.No body change in appearance. 2.No marking blurred. 3.Inductance shall not change more than ±20%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitued : 10-2000-10 Hz, 1.5 mm. 2.Direction:X, Y, Z 3.Test duration:2 hours for each direction, 6 hours in total.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210 & J-STD020D.1	1.Highest temperature : 250±5℃. 2.Time (temp. ≥ 217℃) : 60~150 Second. 3.IR reflow times : 3 times.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
10.Saturation Current	JIS C 6436 & User SPEC.	1.Applied rated current for 5 second. 2.Saturation current	Inductance shall not drop more than 30% typ.
11.Over load	JIS C 6436 & User SPEC.	1.Applied one and half rated current for a period of 5 minutes. 2.Rated current	No electrical or mechanical damage
12.Temperature Rise Current	JIS C 6436 & User SPEC.	1.Applied rated current for 10 minutes. 2.Temperature measure by digital surface thermometer. 3.Irms current	Surface temperature rise is less than 40℃ typ.
13.Solderability Test	J-STD-002 & JESD22-B 102	1.Baking in pre-testing : 150±5℃ / 16Hours±30 min. 2.Peak temperature : 240±5℃ 3.Time (temp. ≥ 217℃) : 60~150 second. 4.IR reflow times : 1 times.	More than 95% soldering coverage min on terminations.
14.Electrical Characteriazation	MIL-STD-202 Method 304 & User SPEC.	1.Operating temperature : -40℃~125℃ 2.Room temperature : 25℃.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.
15.Drop	CNS-C6354 & GB/T 2423.8	1.Products shall be mounted on SPEC. PCB and dropped down from a height of 1m 2.Drop total time : 6 time (Every side of sample drop 2 time)	1. Adhesion on PCB shall be enough. 2. Product appearance shall not break. 3. No electrical damage.
16.Terminal Strength Test	IEC 60068-2-21	1.Apply push force to samples mounted on PCB. 2.Force of 1.8 kg for 60±1 seconds.	After test, inductors shall be no mechanical damage.

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