Power Inductor (SMD), 100  $\mu$ H, 600 mA, Shielded, 6.4mm x 6mm x 5mm



# **SPECIFICATION**

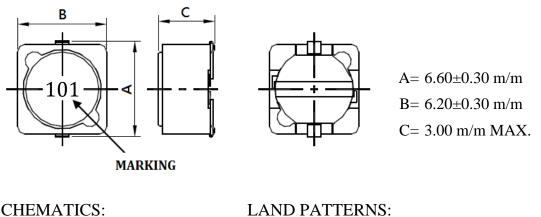
ITEM	SMD,INDUCTOR, 100uH
Part Number	FENG0603-101M-Z
ELECTRICAL	INDUCTANCE: 100uH±20%
REQUIREMENTS	DCR: 1.39Ω MAX
	RATED CURRENT: 0.34A MAX

\*Rated current: Min(Isat, Irms), Isat: drop 35% typ., Irms:  $\triangle T=40^{\circ}C$  typ. at 25°C ambient.

#### **TEST METHOD:**

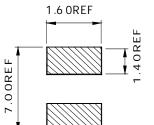
TEST EQUIPMENT	CH3302 / CH 1320
TEST FREQUENCY	100kHz, 0.25V

### DIMENSION : (UNIT:mm)



#### **SCHEMATICS:**

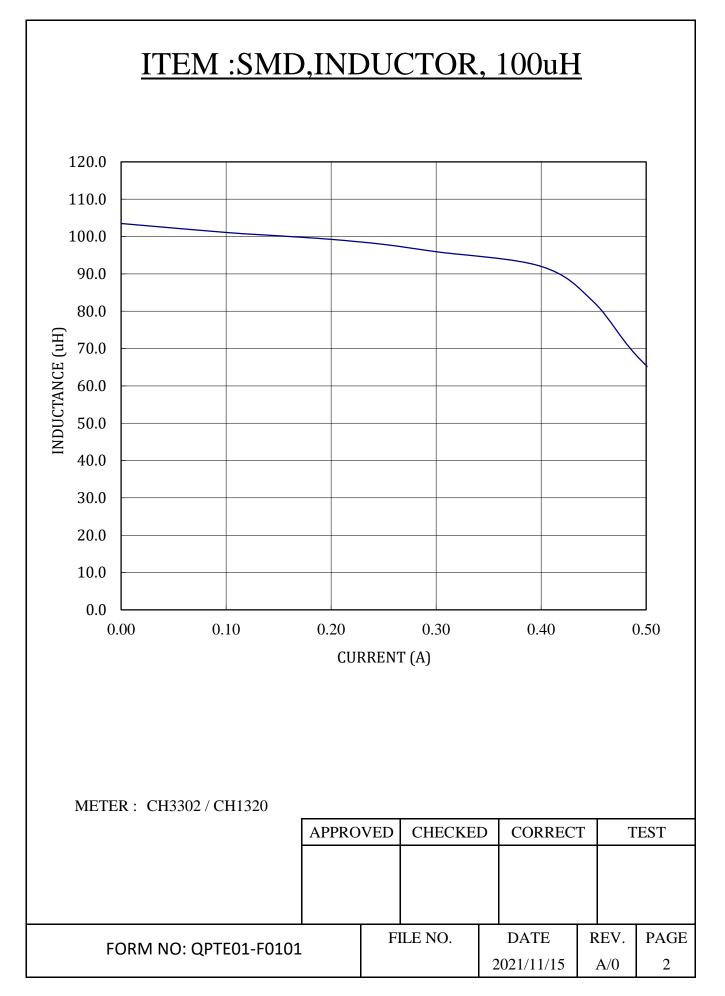
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**BEC** 

Power Inductor (SMD), 100  $\mu$ H, 600 mA, Shielded, 6.4mm x 6mm x 5mm

# **SPECIFICATION**

### PACKAGING QUANTITIES

ТҮРЕ	Pcs / REEL
FENG0603	1,500

#### REEL DIMENSIONS UNIT:mm

REEL DIMENSIONS UNIT: mm								
TYPE	W	D	С	T1	Ν	T2	]	E
UR-13	330±1.5	21.5+0.5/-0	13+0.5/-0.2	16.5+0.5/-0	100±1.5	21.4±0.4	4 2.00	0±0.5
I 1.75 F 7.50	(Detail A) 00±0.3 5±0.1 0±0.1	۵						
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REEL AND TAPE	V	SEE DETAIL	•					
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# RELIABILITY TEST

1. Operating temperature range $40 \text{ TO} + 105^{\circ}\text{C}$ (Includes temperature)	when the soil	is heated)		
$-40 \text{ TO} + 105^{\circ}\text{C}$ (Includes temperature	e when the con	is neated)		
2. External appearance	utamal dafaata			
On visual inspection, the coil has no ex	xternal defects.			
3. Terminal strength	1. • 1		1	C X7 X7
After soldering. Between copper plate	and terminals o	f coll. Push in t	wo directions o	I X. Y
withstanding at below conditions.	<b>C ( 1 ( )</b>		$\sim$	
Terminal should not peel off. (refer to	figure at right)		//	
5. 0N 60 sec.			$\langle / \rangle$	
4. Insulating resistance.		x x		×
Over $100M\Omega$ at $100V$ D.C. between co	oil and core.		Eigung 1	
5. Dielectric strength	for 1 minute h		Figure 1	
No dielectric breakdown at 100V D.C.	for 1 minute be	etween con and	core.	
6. Temperature characteristics In ductor as $a = 6 = 10^{-6}$		de anne Calaine)		
Inductance coefficient $(0 \sim 2,000) \times 10^{-6}$		legree Ceisius)		
inductance deviation within±5.0%, afte				
7. Humidity characteristics (Moisture Resis		050/ malations 1		a°⊂
Inductance deviation within $\pm 5\%$ , after		~95% relative r	iumidity at 40 ±	EZ (
and 1 hour drying under normal condit	.1011.			
8. Vibration resistance		1 T 1	£ (1	
Inductance deviation within $\pm 5\%$ , after			of three orientation	ions at
sweep vibration $(10 \sim 55 \sim 10 \text{ Hz})$ with 1		litudes.		
9. Shock resistance			$(\frac{2}{1000})$ 1	1 1
Inductance deviation within $\pm 5\%$ , after				ock attitude
upon a rubber block method shock test	-			
10. Resistance to Soldering Heat: 260°C, 1	U seconds(See a	attached recom	nend reflow)	
11. Storage environment	0°C 25°C .	40°C 105°C	$(-f_{t-1}, \mathbf{D}, \mathbf{C}, \mathbf{D})$	
Storage condition: Temperature Range			(after PCB)	
Humidity Range:				
Use components within 12 months. If 12 n	nonths or more	have elapsed, cl	heck solderabili	ty before use.
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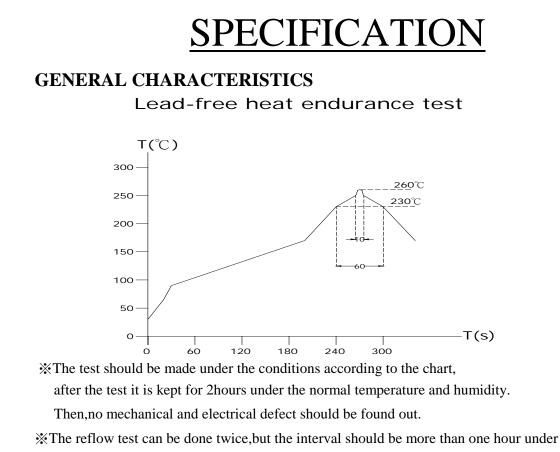
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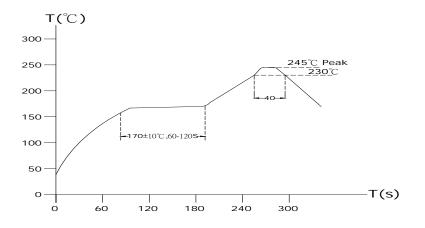
Power Inductor (SMD), 100  $\mu H,\,600$  mA, Shielded, 6.4mm x 6mm x 5mm



the normal conditions.

The reflow test conditions are based on the testing instruments available in our company.

Lead-free the recommended reflow condition



% The reflow condition recommended above is according to the machine used by our company. Big differences will arise as a result of the type of machine ,reflow conditions,method,etc used. Hence,before setting up your reflow conditions,please confirm with the above.

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