PROMAGTECH
High-Performance Magnetic Solutions

PRODUCT SPECIFICATION · INDUCTOR

LC-200ES26F-YC

20 µH Output Inductor — Flat Wire, High-Current, EQ26 Core

This document is provided as buyer evidence of product structure, electrical specification, and material list. Project-specific values must be confirmed via approved sample record and drawing.

1. Document Information

Manufacturer P/N	LC-200ES26F-YC
Version	A01
Date	2026-02-06
Product Description	Output Inductor — 20 µH / 30 A (Flat Wire)
Manufacturer	Shenzhen PROMAGTECH Co., Ltd. | www.promagtech.com
Contact	zyong@promagtech.cn | +86 135 3765 8938
Address	No. 22 Dongda Road, Dongkeng, Fenghuang St., Guangming District, Shenzhen, China
RoHS Compliance	Yes — all materials comply with RoHS and applicable environmental requirements

Evidence Note: This product specification is published as buyer review evidence for initial parameter screening and engineering review. Current rating, DCR, temperature rise, insulation structure, and qualification documents must be confirmed against the approved sample record and project-specific drawing before production release.

2. Electrical Specifications

No.	Parameter	Terminals	Specification	Test Condition	Test Instrument
1	Inductance L	1-2	20 µH ± 25%	100 kHz / 1.0 V	HP42381A or equivalent
2	DC Bias Inductance	1-2	L_dc ≥ L_0 × 90% (at rated DC bias)	100 kHz / 1.0 V | 120°C or 25°C	HP42381A or equivalent
3	Q Value	1-2	Reference only	100 kHz / 1.0 V	HP42381A or equivalent
4	DC Resistance (DCR)	1-2	≤ 10 mΩ @ 25°C	25°C ambient	CH502 or equivalent
5	Inter-turn Test	1-2	AC 1000 V / 5 pulses — no anomaly	TH9201S procedure	TH9201S or equivalent
6	Hi-Pot Test	Core-Coil	AC 500 V / 2 mA / 60 s — no breakdown	—	TH9201S or equivalent

No.	Parameter	Terminals	Specification	Test Condition	Test Instrument
7	Insulation Resistance	Core-Coil	≥ 100 MΩ @ DC 500 V	—	TH9201S or equivalent

3. Winding Structure

Winding	Start	End	Wire Gauge	Turns	Winding	Notes
N1 (Primary)	Pin 1	Pin 2	Flat wire AIW T1.0 mm × 3.0 mm	10.75 turns	Close-wound (密绕)	Single-layer flat copper winding

3.1 Production Process Requirements

3.1 Winding direction: clockwise.

3.2 Horizontal (lying flat) mounting on baseplate; lead pin length: 3.5 ± 0.5 mm.

3.3 Adhesive fixation applied at lead exit points and between core halves.

3.4 Solder joints must be smooth and fully filled (no cold joints or bridging).

3.5 Label positioned on the Pin 1–2 side face as shown in product drawing.

4. Operating Conditions

Operating Temperature	-40°C to +125°C
Storage Temperature	-40°C to +125°C
Operating Humidity	5% – 80% RH (non-condensing; confirm for specific installation)

5. Material List

Item	Material / Grade	Spec / Model	Temp. Class	Manufacturer	UL File	RoHS
Core	Ferrite — Grade 60	EQF2651900101	N/A	STODA TECHNOLOGY (SHANTOU) CO., LTD	N/A	Yes
Flat Wire	Enamelled Flat Cu (AIW class)	T1.0 × 3.0 mm	220°C	Shanghai Youtuo Magnetwire Co., Ltd.	E338133	Yes
Flat Wire	(Alt. source)	T1.0 × 3.0 mm	220°C	Well Ascent Electronic (Ganzhou) Co., Ltd.	E318511	Yes

Item	Material / Grade	Spec / Model	Temp. Class	Manufacturer	UL File	RoHS
Base / Bobbin	PPS resin	A504X90 / A504X95 / A504FG1 / A504(R)	130°C	Toray Industries Inc.	E41797	Yes
Adhesive / Epoxy	Epoxy compound	3300	130°C	Dongguan Eatto Electronic Material Co., Ltd.	E218090	Yes

6. Applicable Standards

GB/T 15290-94	General specifications for power transformers and filter chokes for electronic equipment
GB 2423	Basic environmental testing procedures for electronic products
GB 8554	Test methods for transformers and inductors for electronic / communication equipment
IEC 1007	Transformers and inductors for electronic/telecom equipment — measuring methods and test procedures
UL 1446	Standard for insulation systems certification
IPC 9592	Performance parameters for power conversion devices for use in telecom equipment
GB 4943-2001	Information technology equipment — safety
RoHS / REACH	Compliant — all materials meet applicable environmental regulations

7. Contact and Engineering Review

To initiate an engineering review for a custom inductor based on this product family, send your converter topology, rated current, target inductance, DCR limit, switching frequency, temperature rise limit, insulation requirement, and package envelope to:

Email	zyong@promagtech.cn
WhatsApp	+86 135 3765 8938
Website	www.promagtech.com/contact.html

Response Commitment: Preliminary design assessment within 24 hours of complete specification. Formal quotation within 3 business days. Sample delivery: 5–7 business days for standard custom designs.