

PRODUCT SPECIFICATION

SPEC. NO: D-2603-05

DATE: Mar.3,2026

CUSTOMER'S PRODUCT NAME:

EMTEK PRODUCT NAME:

BWWP5050404R7M00

THIS SPECIFICATION IS:

- ☐ FULLY ACCEPTED
- ☐ DENIED
- ☐ ACCEPTED UNDER THE FOLLOWING CONDITIONS



SIGNATURE: _____ DATE: _____

NAME(PRINT): _____

TITLE: _____

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EMTEK CO., LTD.

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1. Features

- Stable Inductance Performance & Low Power Consumption Design
- Reliable Current Carrying Capacity
- Wide Temperature Range Adaptability
- Excellent Environmental and Mechanical Reliability

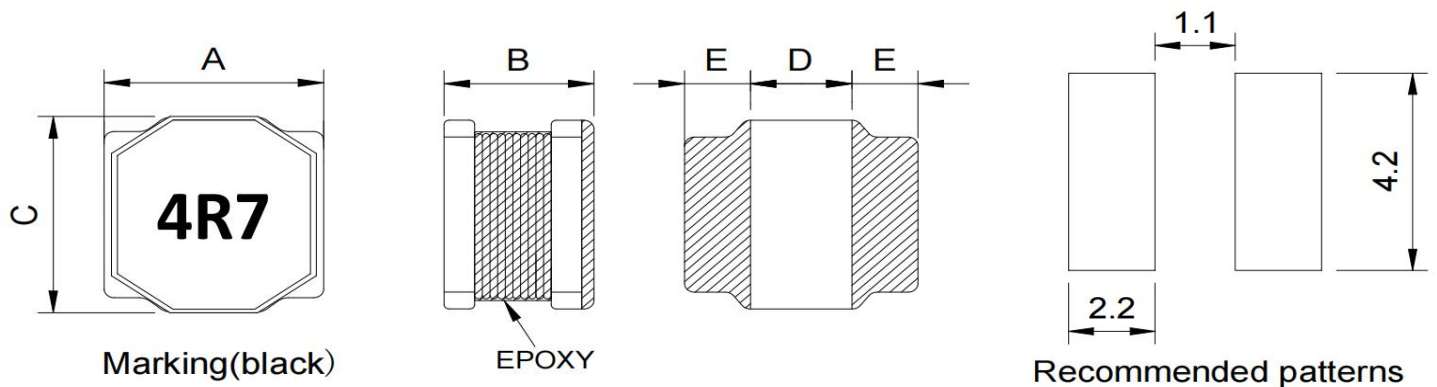
2. Application

- Applicable to power management modules of audio-visual entertainment and home appliance products.
- Used in power supply circuits of computers and office automation equipment.
- Applied to communication equipment and small power supply module circuit systems.
- Suitable for LED lighting, measuring instruments and industrial control board power drive circuits.

3. Part numbering

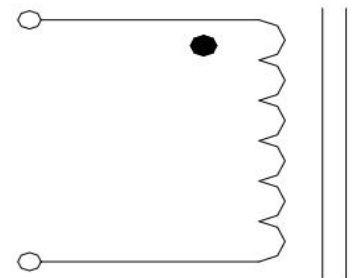
B	-	WWP	-	505040	-	4R7	-	M	-	00
Grade		Product Series		Dimensions(mm)		Impedance (Ω)		Tolerance		Control code

4. Appearance and Dimensions



Marking: BLACK "XXX"

A	B	C	D	E
5.0 ± 0.2	4.0 Max	5.0 ± 0.2	1.8 ± 0.3	1.6 ± 0.3



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5. Rating

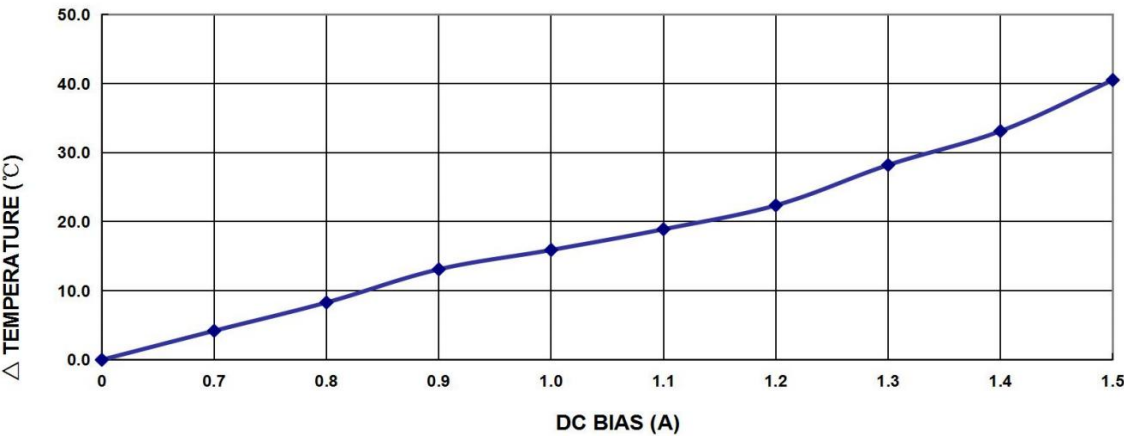
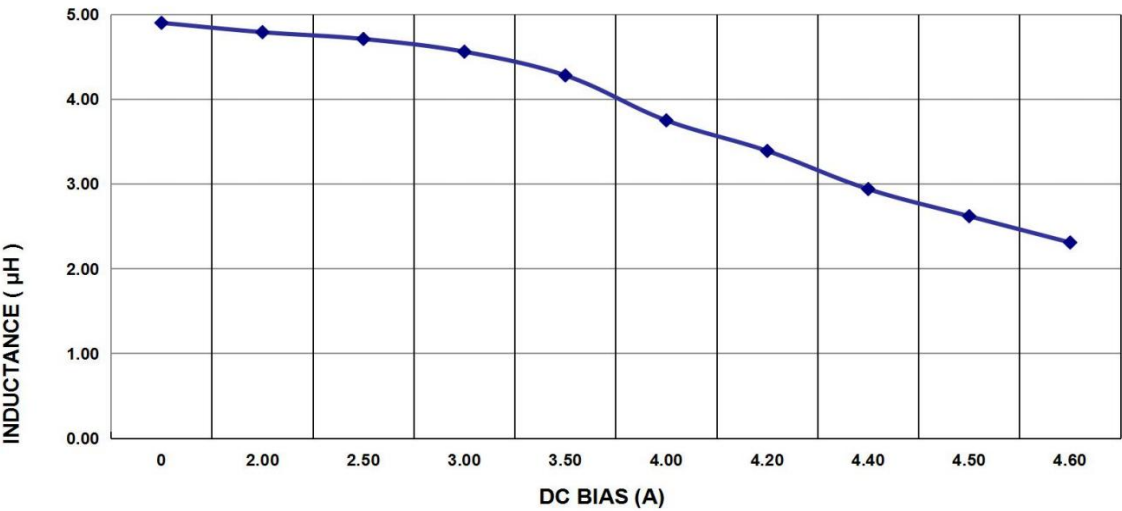
NOTE:

- Operating temperature: -40℃~+125℃

ELECTRICAL CHARACTERISTICS(@ 25℃)

Part No.	Inductance Lo (uH) ± 20 %	Test Frequency (Hz/v)	DC Resistance (mΩ) ± 30 %	Isat (A) TYP ΔL/L≧-30%	Irms (A) MAX ΔT≦40℃
BWWP5050404R7M00	4.7	100KHZ/1V	32.0	3.5	3.0

Typical Eleectrical Characteristics



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6. Reliable Performance

ELECTRONICAL TEST DATA						DIMENSION				
	INDUCTANCE	DCR	L(uH)			A	B	C	D	E
			DC 3.5A							
No	4.7uH ±20%	32mΩ ±30%	1.0A×70% Ref.			5.0±0.2	4.0 Max	5.0±0.2	1.8±0.3	1.6±0.3
1	4.52	32.96	3.89			5.06	3.90	5.07	1.88	1.59
2	4.41	33.55	3.81			5.01	3.90	5.08	1.87	1.57
3	4.48	33.28	3.86			5.03	3.88	5.02	1.85	1.58
4	4.58	32.90	3.95			5.08	3.91	5.01	1.88	1.61
5	4.52	32.64	3.90			5.06	3.91	5.08	1.84	1.63
6	4.29	32.75	3.71			5.07	3.89	5.02	1.87	1.62
7	4.38	33.72	3.78			5.04	3.92	5.06	1.86	1.60
8	4.50	32.91	3.88			5.03	3.90	5.06	1.87	1.59
9	4.54	32.16	3.92			5.06	3.91	5.01	1.88	1.61
10	4.55	33.08	3.92			5.07	3.89	5.05	1.85	1.64
X	4.48	33.00	3.86			5.05	3.90	5.05	1.87	1.60
R	0.29	1.56	0.24			0.07	0.04	0.07	0.04	0.07
All judge		☒ OK ☐ NG								



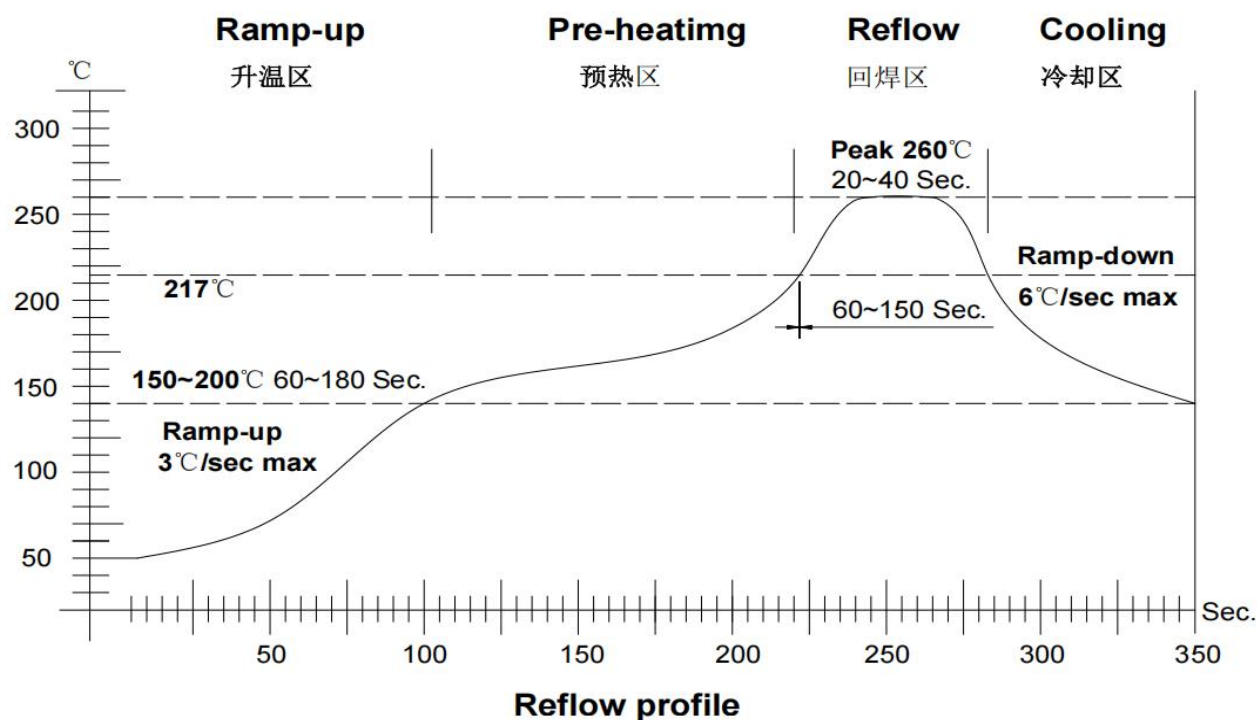
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7.Recommended Soldering Conditions



1) Iron soldering power: Max.30W

2) Pre-heating: 150°C,1 Minute

3) Soldering Tip temperature: 350°C Max.

4) Soldering time: 3sec Max.

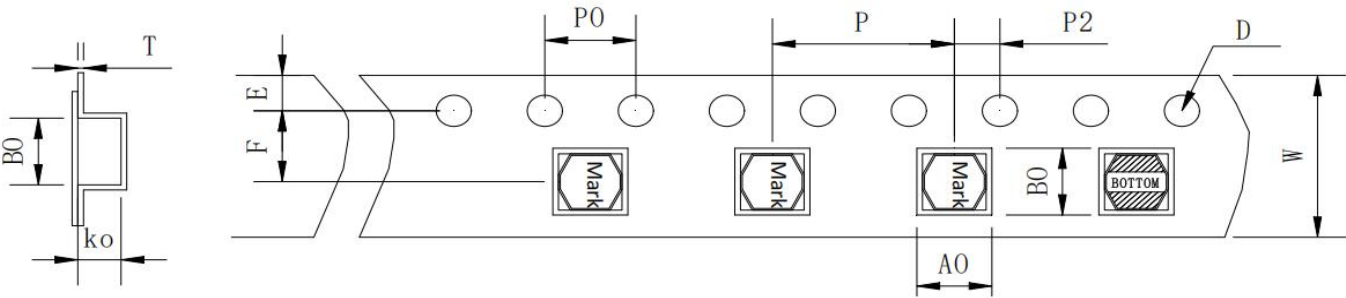
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8.Packaging

Carrier Tape (Unit:mm)



W	A0	B0	K0	D	F	E	P	P0	P2	T
12.0 ±0.3	5.3 ±0.1	5.3 ±0.1	4.2 ±0.1	1.5 ±0.1	5.5 ±0.1	1.75 ±0.1	8.0 ±0.15	4.0 ±0.1	2.0 ±0.1	0.4 ±0.05

Reel Dimensions



Item	Dimension
A	330±1
B	100±1
C	13±0.5

QTY

Reel (Pcs) 1500

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9.Storage

(1) Storage period

Use the products within 12 months after delivered. Solderability should be checked if this period is exceeded.

(2) Storage conditions

●Storage temperature: $-10^{\circ}\text{C}\sim 40^{\circ}\text{C}$

●Storage environment: humidity: RH<70%

(3) Delivery

Care should be taken when transporting or handling product to avoid excessive vibration or mechanical shock.

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