

Specification for Approval

Date: 2017/03/23

Customer : 深圳台慶

TAI-TECH P/N: PAS3225V-102J

CUSTOMER P/N: _____

DESCRIPTION: _____

QUANTITY: _____ pcs

| | | |
|----------------------------|--|--|
| REMARK: | | |
| Customer Approval Feedback | | |
| | | |

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TAI-TECH Advanced Electronics Co., Ltd

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| APPROVED | CHECKED |
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| APPROVED | CHECKED | DRAWN |
|------------------|-------------------|--------------------|
| 楊祥忠 Mike Yang | 徐鋒強 Gemini Hsu | 張展耀 Kevin Chang |

Winding Type Chip Inductor

PAS3225V-102J

ECN HISTORY LIST

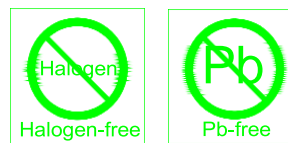
| REV | DATE | DESCRIPTION | APPROVED | CHECKED | DRAWN |
|--------|----------|-------------|----------|---------|-------|
| 1.0 | 17/03/23 | 新 發 行 | 楊祥忠 | 徐鋒強 | 張展耀 |
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| 備 註 | | | | | |

Winding Type Chip Inductor

PAS3225V-102J

1. Features

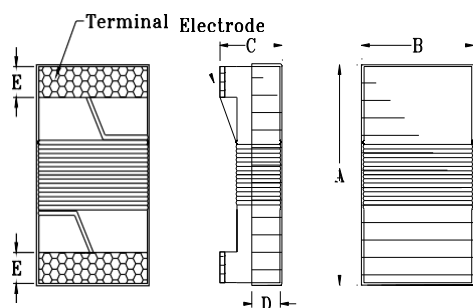
1. Hearing Aid Compatibility-/Telecoil-antennas;
2. PAS3225V-series realizes small size and low profile. 3.6x2.8x2.6mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. Meets the T3/T4 FCC requirements(HAC) . ANSI C63.19
5. High reliability -Reliability test meet AEC-Q200



2. Applications

1. T-coil/HAC-coil for hearing and aid compatible cell phones .
2. Decoupling in RF and IF-circuit .
3. Transponder antenna .

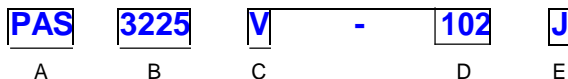
3. Dimension



| Size | A | B | C | D | E |
|------|-----------|-----------|-----------|-----------|----------|
| PAS | 3.60 max. | 2.80 max. | 2.60 max. | 0.80 ref. | 0.55±0.1 |

Unit:mm

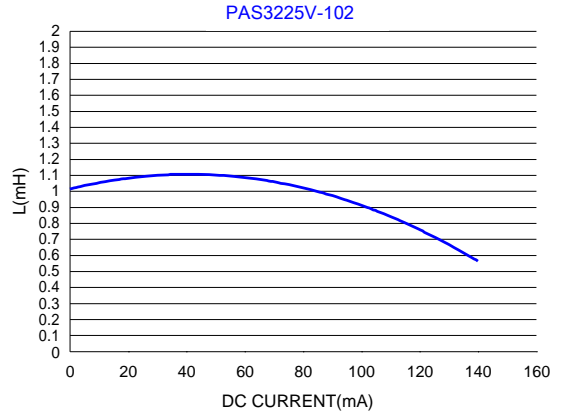
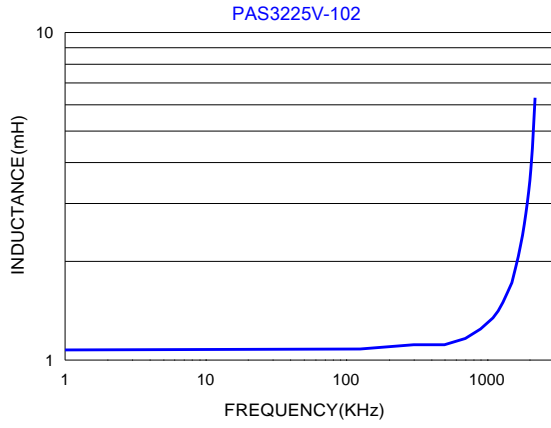
3. Part Numbering



- A: Series
- B: Dimension L x W
- C: Lead free
- D: Inductance 102=1080uH
- E: Inductance Tolerance J =±5%

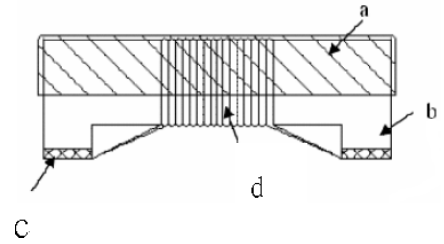
4. Specification

| TAI-TECH Part Number | Inductance (uH) | Tolerance | Test Frequency (Hz) | Q min. | Test Frequency (KHz) | Rated Current (mA) max. | DCR (Ω) max. | SRF (MHz) min. |
|----------------------|-----------------|-----------|---------------------|--------|----------------------|-------------------------|--------------|----------------|
| PAS3225V-102J | 1080 | J | 0.1V/125K | 15 | 125K | 50 | 35 | 1.5 |



5. Materials

| No. | Description | Specification |
|-----|-------------|----------------------|
| a. | Upper Plate | UV Glue |
| b. | Core | Ferrite Core |
| c. | Termination | Tin Pb Free |
| d. | Wire | Enameled Copper Wire |



6. Reliability and Test Condition

| Item | Performance | Test Condition |
|--|---|--|
| Operating temperature | -55~+125°C (Including self - temperature rise) | |
| Storage temperature and Humidity range | -55~+125°C (on board) | |
| Electrical Performance Test | | |
| Inductance L | Refer to standard electrical characteristic list | Agilent-4291, Agilent-4287 |
| Q | | Agilent-4192, Agilent-4285 |
| SRF | | Agilent-4291 |
| DC Resistance | | Agilent-4338 |
| Reliability Test | | |
| High Temperature Exposure(Storage) | Appearance : No damage. Inductance : within±10% of initial value Q : Shall not exceed the specification value. RDC : within ±15% of initial value and shall not exceed the specification value | Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Temperature : 125±2°C Duration : 1000hrs Min. Measured at room temperature after placing for 24±2 hrs |
| Temperature Cycling | | Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Condition for 1 cycle Step1 : -55±2°C 30min Min. Step2 : 125±2°C transition time 1min MAX. Step3 : 125±2°C 30min Min. Step4 : Low temp. transition time 1min MAX. Number of cycles : 1000 Measured at room temperature after placing for 24±2 hrs |
| Moisture Resistance | | Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles 1. Baked at50°C for 25hrs, measured at room temperature after placing for 4 hrs. 2. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs. 3. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs,keep at 25°C for 2 hrs then keep at -10°C for 3 hrs 4. Keep at 25°C 80-100%RH for 15min and vibrate at the frequency of 10 to 55 Hz to 10 Hz, measure at room temperature after placing for 1~2 hrs. |
| Biased Humidity (AEC-Q200) | | Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Humidity : 85±3%R.H, Temperature : 85°C±2°C Duration : 1000hrs Min with 100% rated current. Measured at room temperature after placing for24±2 hrs |
| High Temperature Operational Life (AEC-Q200) | | Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Temperature : 125±2°C Duration : 1000hrs Min. with 100% rated current. Measured at room temperature after placing for24±2 hrs |
| Vibration | | Oscillation Frequency: 10 ~ 2K ~ 10Hz for 20 minute Equipment : Vibration checker Total Amplitude:1.52mm±10% Testing Time : 12 hours(20 minutes, 12 cycles each of 3 orientations) |

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