

# 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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**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
備 註					

# Winding Type Chip Inductor

PAS3225V-102J

## 1. Features

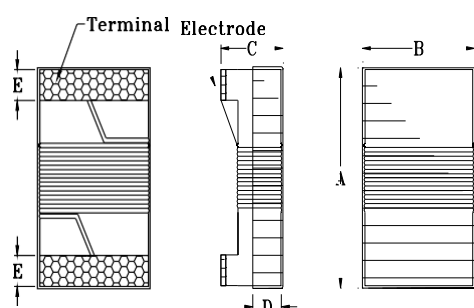
1. Hearing Aid Compatibility-/Telecoil-antennas;
2. PAS3225V-series realizes small size and low profile. 3.6x2.8x2.6mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. Meets the T3/T4 FCC requirements(HAC) . ANSI C63.19
5. High reliability -Reliability test meet AEC-Q200



## 2. Applications

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

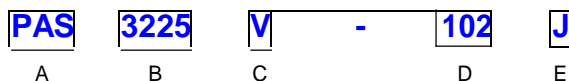
## 3. Dimension



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

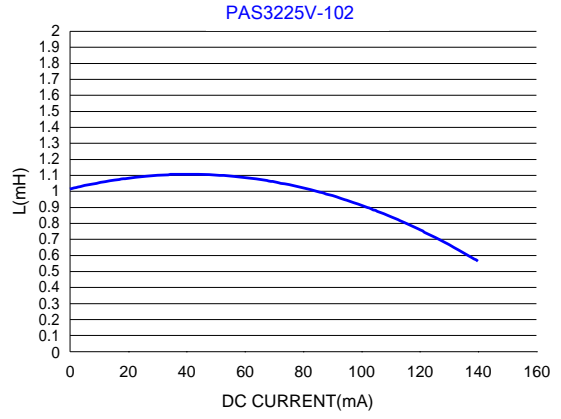
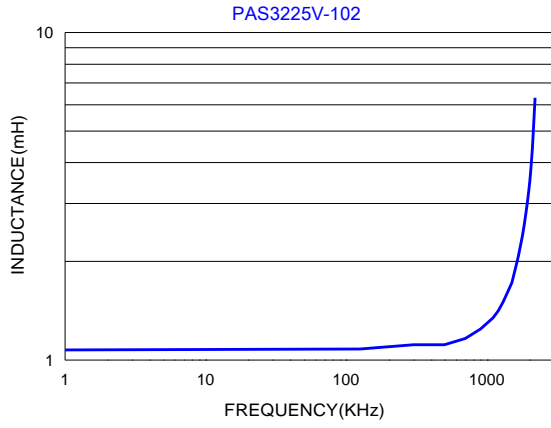
## 3. Part Numbering



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

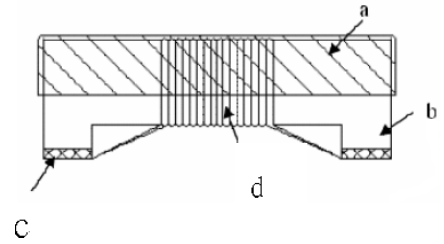
## 4. Specification

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)	
<b>Electrical Performance Test</b>		
Inductance L	Refer to standard electrical characteristic list	Agilent-4291, Agilent-4287
Q		Agilent-4192, Agilent-4285
SRF		Agilent-4291
DC Resistance		Agilent-4338
<b>Reliability Test</b>		
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)