

# SPECIFICATION

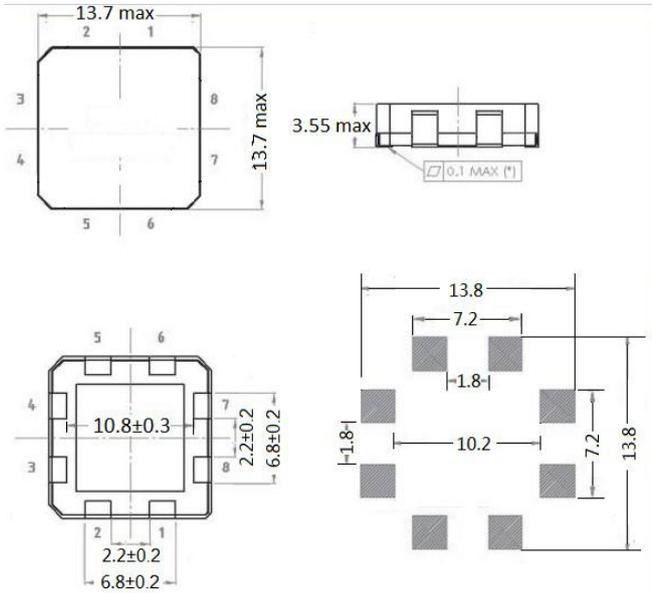
## XYZ 13.7\*3.5 SMD

### Transponder coil

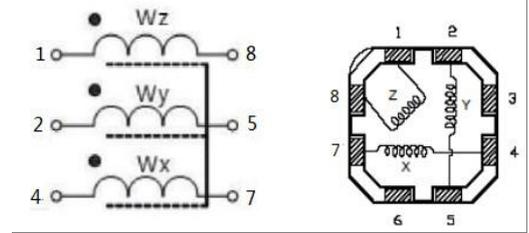
**Productor descrip.:** XYZ 13.7\*3.5  
**ENJOLE P/N:** PKE-3D1335 Series  
**Customer P/N:**  
**Date:** 2021-8-18  
**Version:** A2

**Date sheet**

Dimensions in mm



Schematic



Marking:

\*\*\*\*  
(BALCK)

**Electrical Characteristics:** (specified @25°C if not mentioned otherwise) \*) typical value

All values without tolerances are typical values

	Item	4-7 (X-axis)	2-5 (Y-axis)	1-8 (Z-axis)
PKE-3D1335-4704J	Inductance Unit:mH	4.7mH ±5%	4.7mH ±5%	7.2mH ±5%
	Q Value	30 Min	30 Min	25 Min
	S.R.F Unit:MHz	1.5 Min	1.5 Min	0.5 Min
	Sensitivity Unit:Mv/uT	60	45	40
PKE-3D1335-7204J	Inductance Unit:mH	7.2mH ±5%	7.2mH ±5%	10.6mH ±5%
	Q Value	30 Min	30 Min	25Min
	S.R.F Unit:MHz	1.0 Min	1.0 Min	0.5 Min
	Sensitivity Unit:Mv/uT	80	75	50

**Packaging:**

Blister tape:  
1000pcs/reel

**Materials**

Core : XYZ 13.2×3.2

Wire: Enameled copper G2 180°C

Base: DAP or LCP

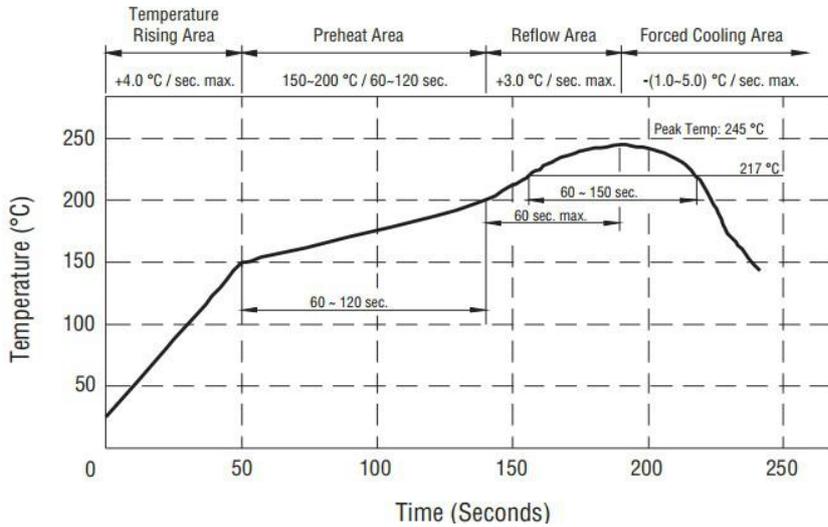
Terminal : Cu/Sn

**Remark:**

1. ROHS Compatible.
- 2.coplanarity:<0.15mm

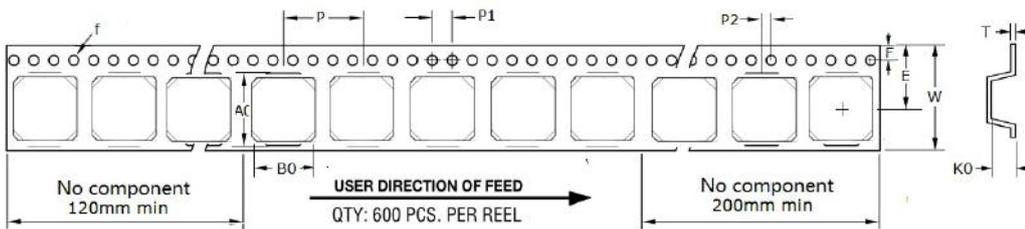
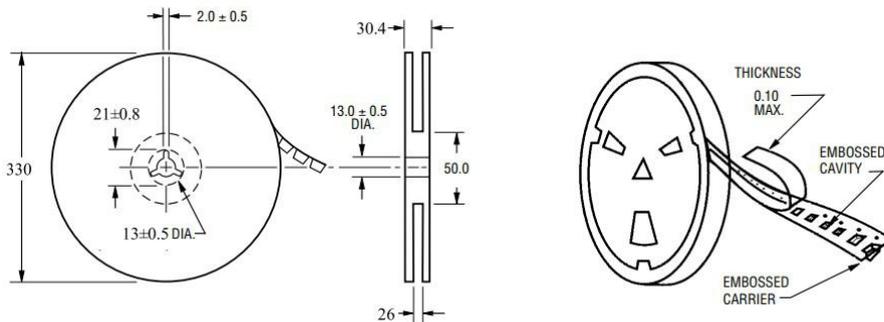
Operation Temperature: -40°C~+120°C

Solder profile



Peak Temperature: 245 °C max.  
 Max. Peak Temperature: -5 °C, 30 sec. max.  
 Max. Time Above 217 °C: 60 ~ 150 sec. max.

Packing specification (Unit:mm)



QTY:1000 pcs/reel

ITEM	W	A0	B0	K0	P	E	F	P2	P1	T	f
DIM	32.0	13.8	13.8	3.65	16	11.5	1.75	2.0	4.0	0.35	1.5
Tol.	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

## Cautions and warnings

- Please note the recommendations in our inductors data book (latest edition) and in the data sheets
- Particular attention should be paid to the derating curves given there
- The soldering conditions should be observed. Temperatures quoted in relation to wave soldering refer to the pin, not the housing.
  
- If the components are to be washed varnished it is necessary to check whether the washing varnish agent that is used has a negative effect on the wire insulation, any plastics that are used, or on glued joints. In particular, it is possible for washing varnish agent residues to have a negative effect in the long-term on wire insulation.
  
- The following points must be observed if the components are potted in customer applications:
  - Many potting materials shrink as they harden. they therefore exert a pressure on the plastic housing or core . This pressure can have a deleterious effect on electrical properties, and in extreme cases can damage the core or plastic housing mechanically
  - It is necessary to check whether the potting material used attacks or destroys the wire insulation, plastics or glue
  - The effect of potting material can change the high-frequency behaviour of the components.
  
- Ferrites are sensitive to direct impact. This can cause the core material to flake, or lead to breakage of the core
  
- Even for customer-specific products, conclusive validation of the component in the circuit can only be carried out by customer

## Important notes:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule, ENJOLE is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an ENJOLE product with the properties described in the product specification is suitable for use in a particular customer application.
2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
3. **The warnings, cautions and product-specific notes must be observed.**
4. In order to satisfy certain technical requirements, **some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous)**. Useful information on this will be found in our Material Data Sheets on the Internet ([www.enjole.com.cn](http://www.enjole.com.cn)). Should you have any more detailed questions, please contact our comply.
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