

3DCoil11LP-AOI-XXXXJ

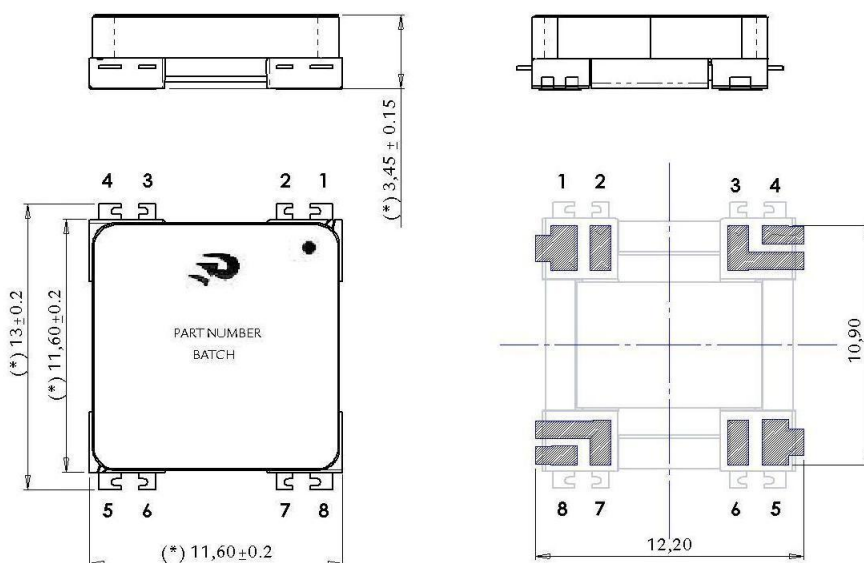
3DCoil11LP-AOIF-XXXXJ (foam option)

3DCoil11LP-AOIC-XXXXJ (cap option)

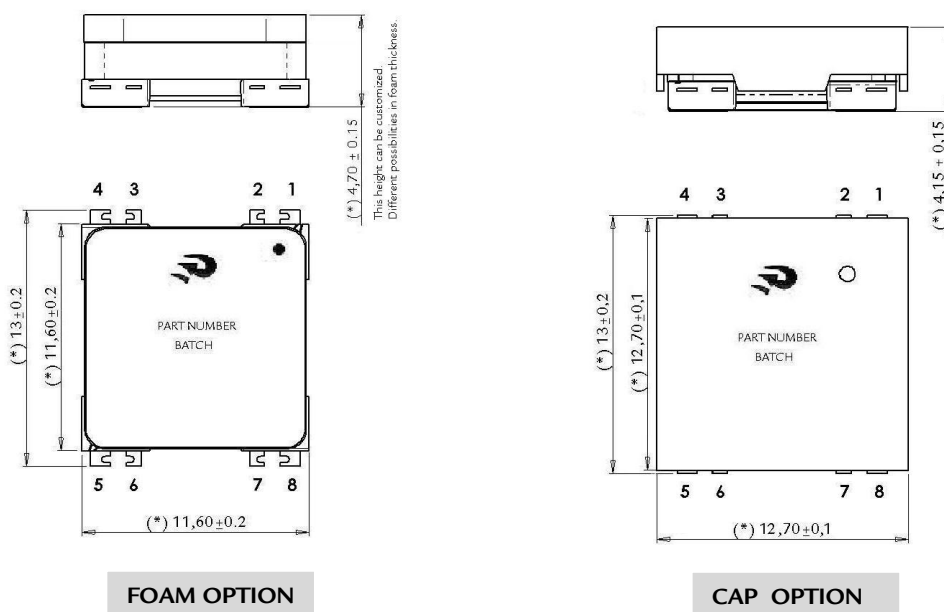
SMD 3D11 Coil Low Profile AOI 13x11.6x3.45 mm

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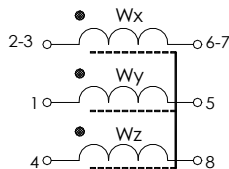
1. Dimensions and Pad Layout



All Dimensions in mm. Pins Coplanarity 0.10mm. General Tolerances unless indicated ± 0.1 mm
Contact PREMO for more detailed information about pad layout.



2. Schematic Diagram



Designed for AMS ICs like AS3932 series, TI Chipset like MSP430 series, NXP, MAXIM (SensorDynamics), ...etc

3. Materials

Core:	Ferrite Core
SMD Base:	LCP with lead frame
Wires:	Enamell and Selfbonding copper wire
Label:	Polyimide with acrylic adhesive (*)
Pins:	Phosphor bronze with Sn100 finish
Foam Label:	Acrylic foam with white polyimide and acrylic adhesive (*)
Cap:	LCP



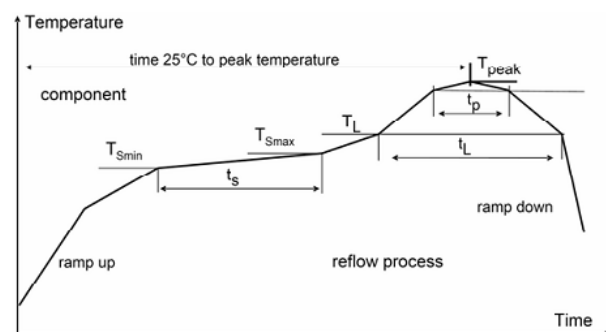
Remark : Products comply with RoHS requirements.
 (*)Label for flat top and ID marking. Not for autoplacement.

4. General Specifications. Recommended Reflow Profile

Typical Operating Frequency 125KHz

Storage Temperature -40 °C → +85 °C

Operating Temperature -40 °C → +85 °C



Lead Free Reflow Profile:
 Equivalent to test condition K from MIL-STD-202G, method 210F

Component temperature 250±5 °C. Time 30 ± 5 s. Temperature ramp/immersion and emersion rate: 1°C/s-4°C/s. Time above 183 °C: 90-120 s.

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5. Electrical Characteristics

3DC11LP-AOI

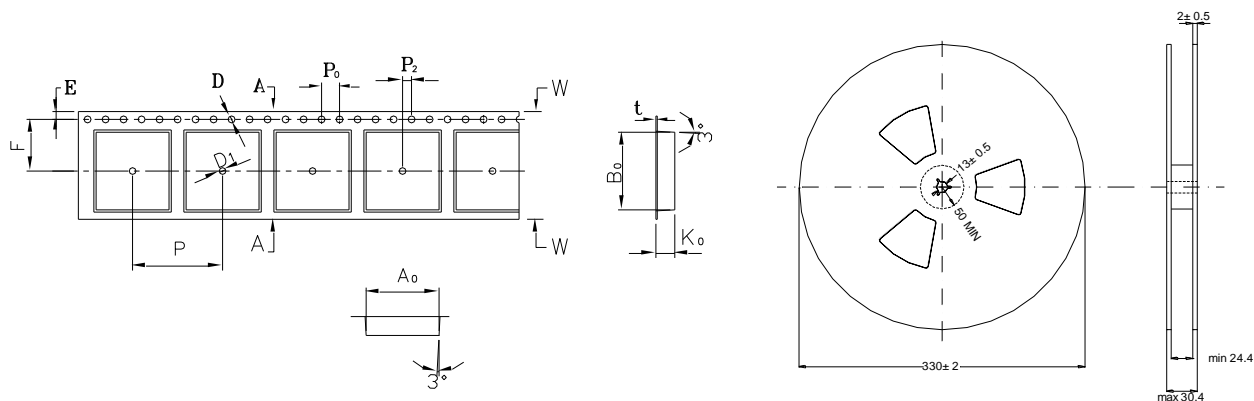
Code	L _{x,y,z} (mH)	Q _{x,y} nom	Q _z nom	f(kHz)	SRF _{x,y} (KHz) Min	SRF _z (KHz) Min	DCR _x (Ohm) Max	DCR _y (Ohm) Max	DCR _z (Ohm) Max	C _{pxy} (pF) Max	C _{pxz} (pF) Max	C _{pyz} (pF) Max	Sensitivity x,y (mV/A/m) Min (*)	Sensitivity z (mV/A/m) Min (*)
3DC11LP-AOI-0238J	2.38	25	19	125	700	750	50	55	83	25	10	10	40	38
3DC11LP-AOI-0477J	4.77	26	24	125	500	650	91	103	122	30	15	15	55	55
3DC11LP-AOI-0720J	7.20	20	20	125	300	450	127	143	220	40	15	15	80	70
3DC11LP-AOI-C-0720J	7.20	20	20	134	300	450	127	143	220	40	15	15	80	70
3DC11LP-AOI-A-3000J	30	6	6	20	115	200	605	704	539	50	15	15	24	20.5

(*) Ask for sensitivity test set up and recommendations

For foam label and cap options, main electrical characteristics will not vary from the standard version.

6. Packaging Information

TAPING SPECIFICATION (According to EIA481)



	Standard version	Foam option	Cap option
Ao	12.1mm	12.5 mm	13.2 mm
Bo	13.5mm	13.9 mm	13.5 mm
Ko	4.0mm	5.6 mm	4.5 mm
W	24mm	24 mm	24 mm
Ppr	1000 pcs	600 pcs	600 pcs

MATERIAL LIST

ITEM	MATERIAL
Reel	Shock-Proof Antistatic PS 330 mm Φ
Carrier tape	PS black colour 0.5 mm
Cover tape	Polyester

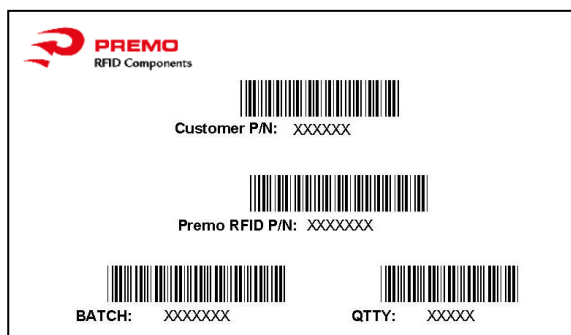
Typical weight one piece 3DC11LP-AOI-0720J: 1.65 g
Typical weight one reel: 2 kg

7. Marking

PART Marking



PACKAGE LABELLING



8. Reliability Tests

This part is qualified according to AEC-Q200 Revision D.
Withstands 1000 random drops from 1 m and 20 drops x 6 axis from 2 m over fine grained wash-out concrete floor and with an added weight to the key housing of 60 g (contact PREMO for specific TAG, Keyfob mechanical conditions for drop test).

Edition	Revision Date
2	30/01/14