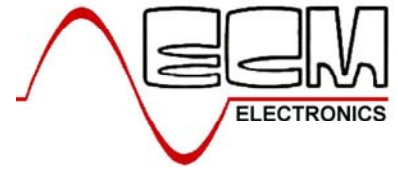


ECM 15mm² 3D Transponder Inductor



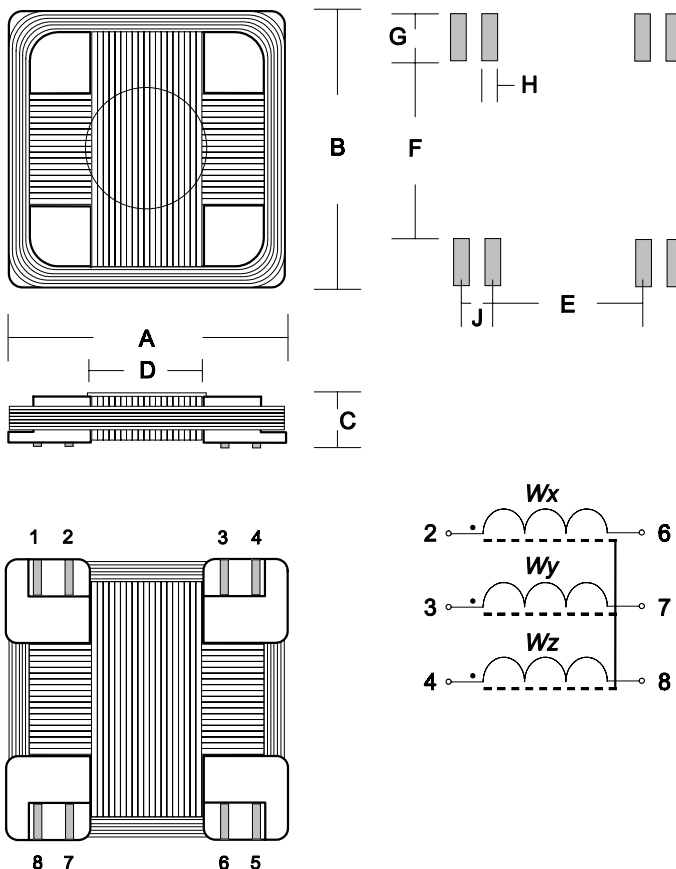
3DC1515 Series

- 125kHz Transponder Application
- Equal Sensitivity X, Y, and Z Axis
- Surface Mount
- Ferrite Core
- Inductance 900uH to 4.05mH
- Temp. Range -40 to 85 °C
- Tape and Reeled



The 3DC series of surface mountable 3D antenna inductors is the very first of its type specifically designed for 125kHz transponder applications. The coil dimensions are optimised to achieve maximum sensitivity on each coil axis.

COMPONENT OUTLINE



DIMENSIONS (mm)

A	15.0 +/-0.3
B	15.0 +/-0.3
C	5.0 +/-0.3
D	10.0 min.
E	8.0
F	9.5
G	3.0
H	0.9
J	2.0

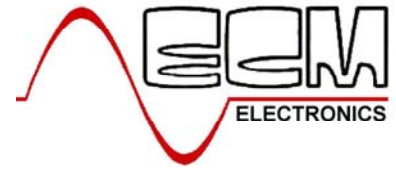
CONNECTION

Pin 1	N/C
Pin 2	Start L x
Pin 3	Start L y
Pin 4	Start L z
Pin 5	N/C
Pin 6	End L x
Pin 7	End L y
Pin 8	End L z

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Although we have attempted to accurately reflect the products we market. ECM reserve the right without prior notice to discontinue any product or make design changes we believe necessary.

ECM 15mm² 3D Transponder Inductor



ECM Part	Lx / Ly / Lz (mH)	Tol %	C (pF)	Q Min. (**kHz)	SRF Min. (kHz)
3DC1515T-901	0.90 @125 kHz	J	1800	25	700
3DC1515T-102	1.08 @125 kHz	J	1500	25	600
3DC1515T-162	1.62 @125 kHz	J	1000	25	400
3DC1515T-192	1.97 @125 kHz	J	820	25	400
3DC1515T-242	2.38 @125 kHz	J	680	25	350
3DC1515T-247	2.47 @125kHz	J	660	25	350
3DC1515T-292	2.89 @125 kHz	J	560	25	350
3DC1515T-342	3.44 @125 kHz	J	470	25	300
3DC1515T-402	4.05 @125 kHz	J	400	25	300

TOLERANCES J=5%

**** = Operating and Test Frequency as specified in 'L' column**

C = Capacitor for tuning circuits (125kHz) NB - the parallel input Cap. of the IC must also be taken into account