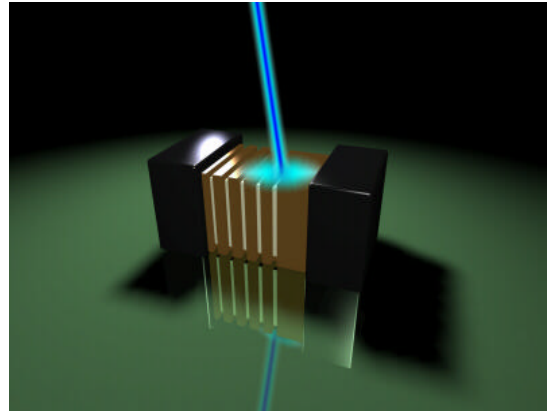


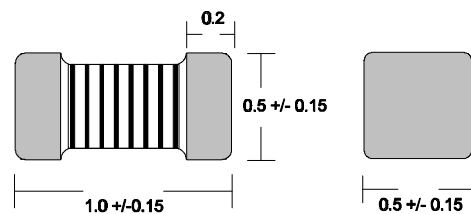
# 0402 Ceramic RF Chip Inductors

ECM's EC0402 (1005) series chip inductor is currently the smallest component available, of its type. It is produced using our state of the art production process to offer unrivalled quality and superb value. This technology offers better 'Q' performance vs. frequency than multilayer and most thin film inductors, which is achieved by laser cutting a perfect helix into the surface of the metalised coil body. Its Gold plated terminations ensure excellent solderability by reflow and wave soldering processes as well as with many conductive adhesives.

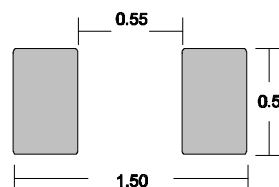


- **Dimensions l x w x h (mm)**  
1.0 x 0.5 x 0.5
- **Terminals** Gold (Au)
- **IEC climatic category**  
40/085/56
- **Soldering** IR, vapor phase, wave soldering
- **Delivery mode:** 8mm paper tape.
- Minimum order quantity 3500 pcs
- (1 Ø180mm reel)
- Core Material Ceramic ( $Al_2O_3$ )
- Epoxy Encapsulated
- Metallization Ni-Cu-Ni-Au

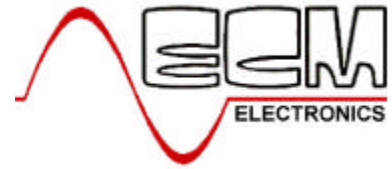
## DIMENSIONS



## LAND PATTERN



Unit = mm



# 0402 Ceramic RF Chip Inductors

<b>ECM Part</b>	<b>L (nH)</b>	<b>Tol %</b>	<b>Q Min. (100MHz)</b>	<b>Q Typ (800 MHz)</b>	<b>SRF Min. (MHz)</b>	<b>R<sub>DC</sub> MAX (W)</b>	<b>I<sub>DC</sub> I<sub>N</sub> (mA)</b>
EC0402A-1N0	1.0 @100MHz	J	8	32	6000	0.05	400
EC0402A-1N2	1.2 @100MHz	J	8	32	6000	0.06	400
EC0402A-1N5	1.5 @100MHz	J	8	32	6000	0.07	400
EC0402A-1N8	1.8 @100MHz	J	8	32	6000	0.08	400
EC0402A-2N2	2.2 @100MHz	J	8	32	6000	0.09	400
EC0402A-2N7	2.7 @100MHz	J	8	30	6000	0.10	400
EC0402A-3N3	3.3 @100MHz	J	7	30	5500	0.12	400
EC0402A-3N9	3.9 @100MHz	J	7	30	5500	0.15	360
EC0402A-4N7	4.7 @100MHz	J	7	28	4800	0.17	360
EC0402A-5N6	5.6 @100MHz	J	7	28	4600	0.19	340
EC0402A-6N8	6.8 @100MHz	J	7	28	3550	0.30	320
EC0402A-8N2	8.2 @100MHz	J	7	28	3500	0.35	320
EC0402A-010	10 @100MHz	J	7	26	2800	0.41	320
EC0402A-012	12 @100MHz	J	7	24	2800	0.45	320
EC0402A-015	15 @100MHz	J	7	22	2500	0.60	240
EC0402A-018	18 @100MHz	J	7	21	2300	0.70	240
EC0402A-022	22 @100MHz	J	7	20	2000	0.80	200
EC0402A-027	27 @100MHz	J	7	22	2000	1.20	200
EC0402A-033	33 @100MHz	J	7	25	1800	1.40	170
EC0402A-039	39 @100MHz	J	7	25	1800	1.70	150

**TOLERANCE : J=5%**