



Features

- High Q value, self-resonant frequency
- Tight tolerance
- Epoxy cover for mechanical stability and pick & place
- Surface mount
- RoHS compliant*

Applications

- High frequency TV and radio receivers
- Radio transmitters
- RF amplifiers
- Tuning applications

AC2213R Series – Air Coil Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance		Q Min.	Test Frequency (MHz)	SRF (GHz) Min.	DCR (mΩ) Max.	Irms (A) Max.
	L (nH)	Tol. (%)					
AC2213R-1N6_	1.65	±5, ±10	100	800	10.0	4.0	1.6
AC2213R-2N5_	2.55	±5, ±10			8.2	5.0	
AC2213R-3N8_	3.85	±2, ±5, ±10			7.5	6.0	
AC2213R-5N4_	5.45	±2, ±5			7.0	8.0	

Note:

Underscore indicates Inductance Tolerance Code:
G = ±2 %, J = ±5 %, K = ±10 %

Electrical Schematic



Materials

Wire Enameled Copper
Cover Epoxy
Terminal Sn/Ag/Cu
Packaging 2000 pcs. per 7-inch reel

Additional Information

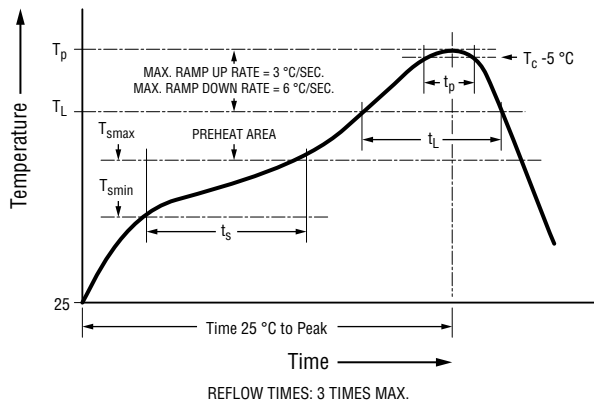
Click these links for more information:



General Specifications

Operating Temperature -25 °C to +125 °C
Storage Temperature -25 °C to +85 °C
Temperature Rise 15 °C
Moisture Sensitivity Level 1
ESD Classification (HBM) N/A

Soldering Profile



Profile Feature	Pb Free Assembly
Preheat - Temperature Min. (T_{smin}) - Temperature Max. (T_{smax}) - Time (t_s) from T_{smin} to T_{smax}	150 °C 200 °C 60-120 seconds
Ramp-up Rate (T_L to T_p)	3 °C/second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217 °C 60-150 seconds
Peak package body temperature (T_p)	260 °C
Time (t_p) at $T_c - 5 °C$ (T_p should be equal to or less than T_c)	< 30 seconds
Ramp-Down Rate (T_p to T_L)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.



WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
Specifications are subject to change without notice.

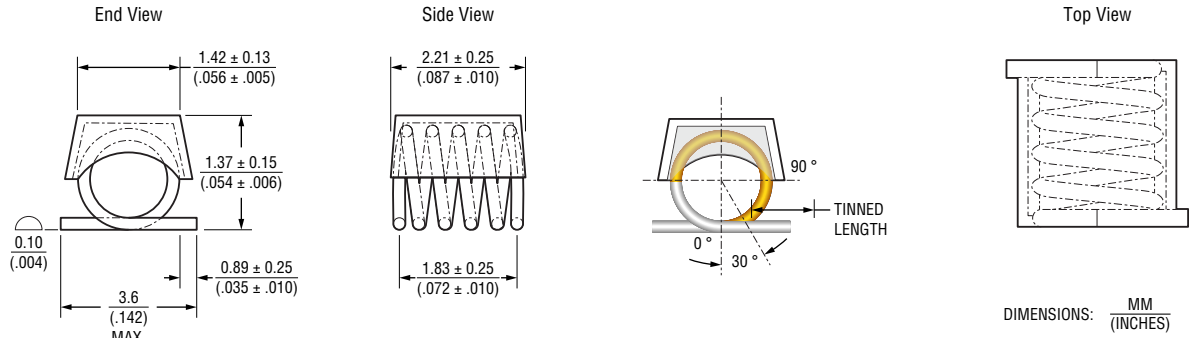
Users should verify actual device performance in their specific applications.

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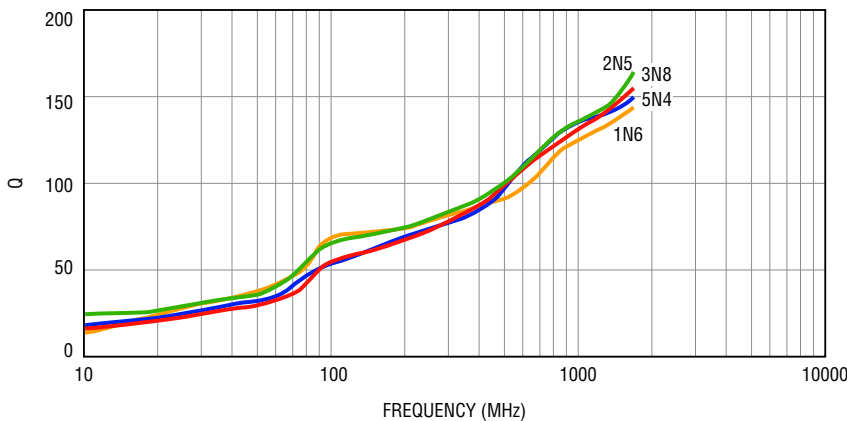
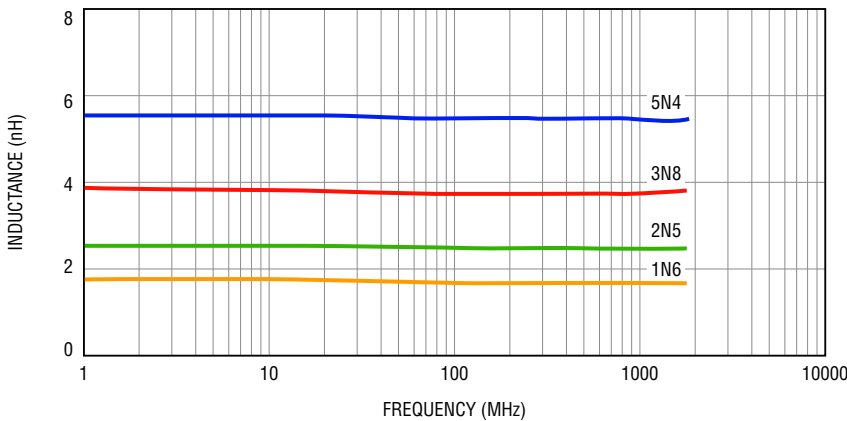
AC2213R Series – Air Coil Inductors

BOURNS®

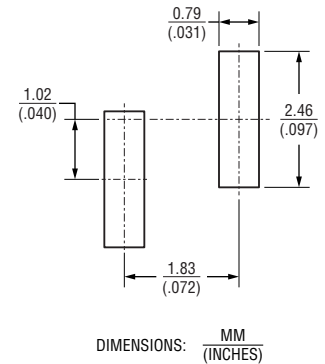
Product Dimensions



Inductance vs. IDC



Recommended Layout



How to Order

AC2213R - 2N5

Model _____
 Value Code _____
 (See Table)
 Tolerance _____
 G = ±2 %
 J = ±5 %
 K = ±10 %

Specifications are subject to change without notice.

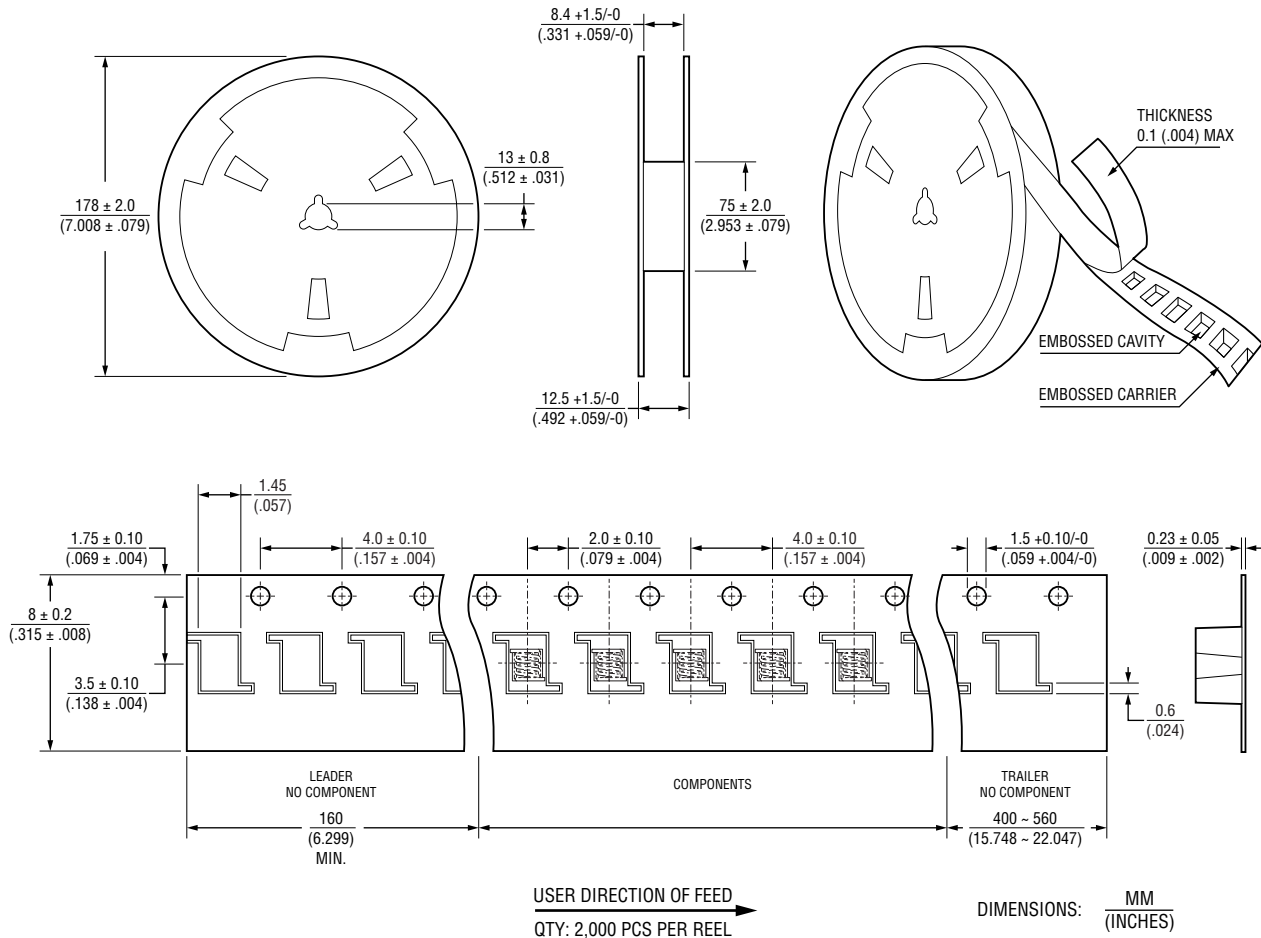
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AC2213R Series – Air Coil Inductors

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Packaging Specifications



BOURNS®

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