



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

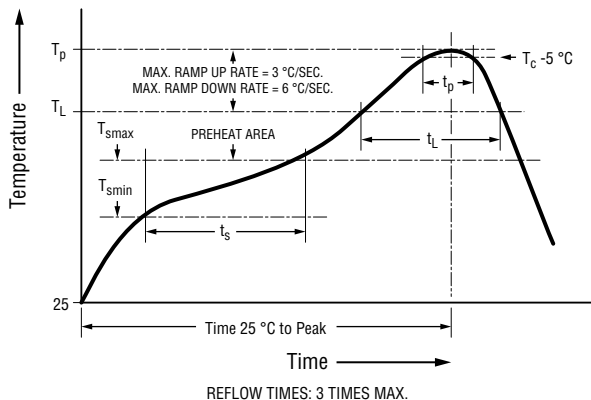
Click these links for more information:



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 <ul style="list-style-type: none"> - 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.

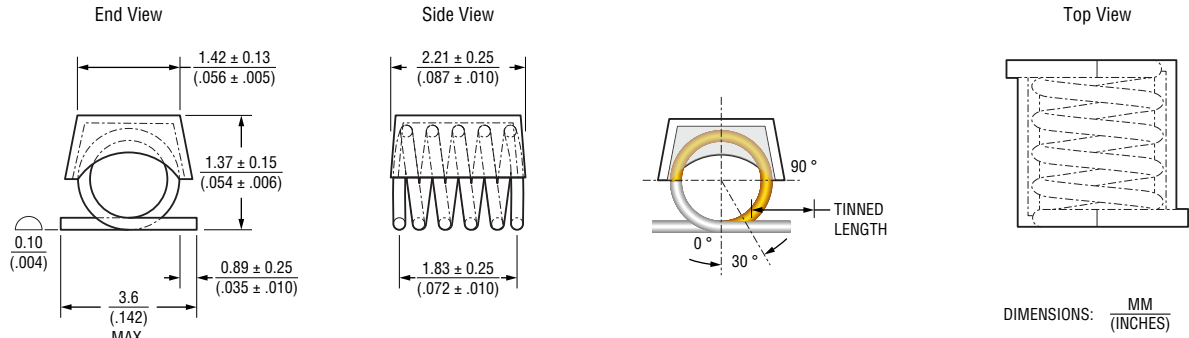
Users should verify actual device performance in their specific applications.

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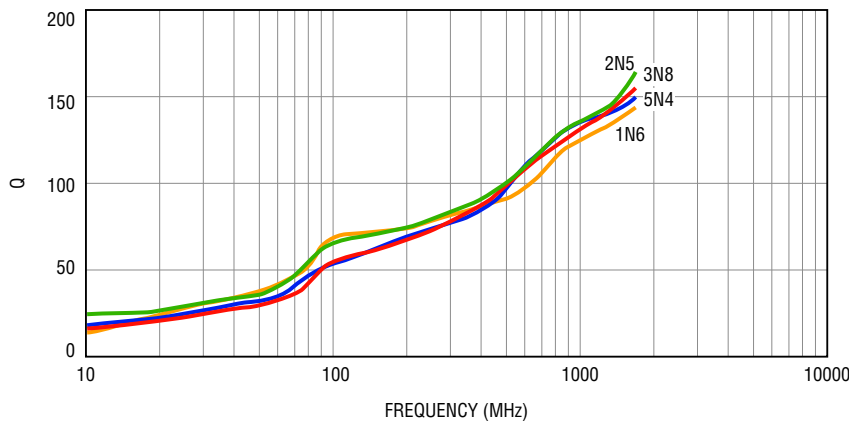
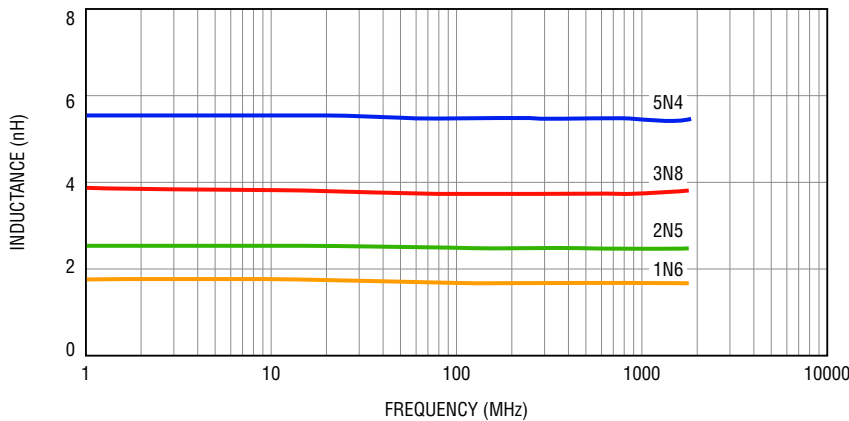
AC2213R Series – Air Coil Inductors

BOURNS®

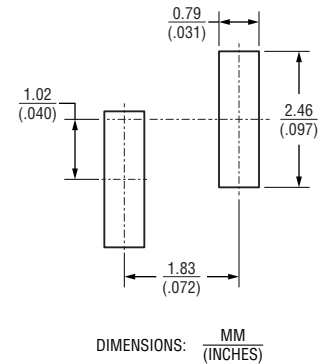
Product Dimensions



Inductance vs. IDC



Recommended Layout



How to Order

AC2213R - 2N5

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

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Technical drawing of a 1600 Series Carrier, showing top, side, and cross-sectional views with dimensions in mm and inches.

Top View Dimensions:

- Overall Width: 178 ± 2.0 (7.008 \pm .079)
- Inner Width: 13 ± 0.8 (.512 \pm .031)
- Overall Height: 75 ± 2.0 (2.953 \pm .079)
- Inner Height: $12.5 \pm 1.5/-0$ (.492 \pm .059/-0)

Side View Dimensions:

- Overall Width: $8.4 \pm 1.5/-0$ (.331 \pm .059/-0)
- Inner Width: 13 ± 0.8 (.512 \pm .031)
- Overall Height: 75 ± 2.0 (2.953 \pm .079)
- Inner Height: $12.5 \pm 1.5/-0$ (.492 \pm .059/-0)

Cross-sectional View Dimensions:

- THICKNESS: 0.1 (.004) MAX
- EMBOSSED CAVITY
- EMBOSSED CARRIER

Carrier Assembly Dimensions:

- Overall Width: 1.75 ± 0.10 (.069 \pm .004)
- Inner Width: 1.45 (.057)
- Inner Width: 4.0 ± 0.10 (.157 \pm .004)
- Inner Width: 2.0 ± 0.10 (.079 \pm .004)
- Inner Width: 4.0 ± 0.10 (.157 \pm .004)
- Inner Width: $1.5 \pm 0.10/-0$ (.059 \pm .004/-0)
- Inner Width: 0.23 ± 0.05 (.009 \pm .002)
- Overall Height: 3.5 ± 0.10 (.138 \pm .004)
- Overall Height: 3 ± 0.2 (.15 \pm .008)
- Overall Height: 0.6 (.024)

Carrier Assembly Labels:

- LEADER NO COMPONENT
- COMPONENTS
- TRAILER NO COMPONENT

Carrier Assembly Dimensions:

- Overall Length: 160 (6.299) MIN.
- Overall Length: 400 ~ 560 (15.748 ~ 22.047)

Carrier Assembly Notes:

- USER DIRECTION OF FEED
- QTY: 2,000 PCS PER REEL
- DIMENSIONS: MM (INCHES)

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