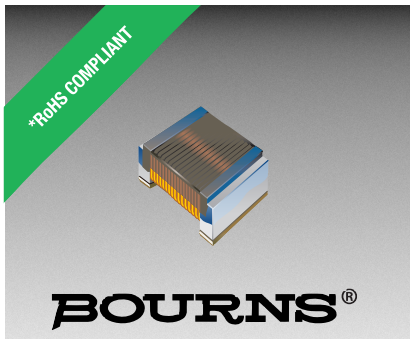




Features

- Formerly **J. W. Miller**® model
- 0603 size
- Available in E12 series
- High Q up to 35 typ.
- High operating temperature of 125 °C

Applications

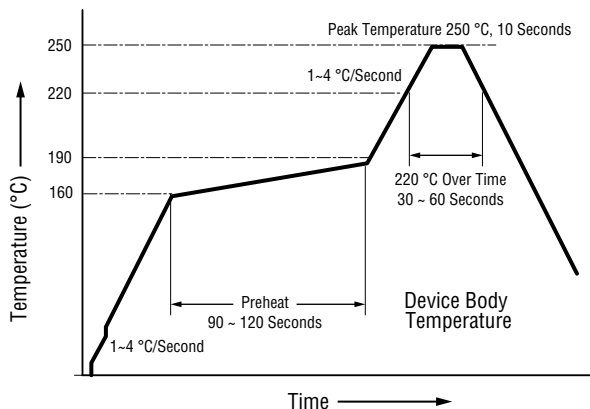
- Mobile phones
- Cellular phones
- CTV, VCR, HIC, FDD

PM0603 Series - High Q Chip Inductors

Electrical Specifications

Bourns Part No.	Inductance		Q Min.	Test Frequency (MHz)		SRF Min. (MHz)	DCR (Ω) Max.	I rms Max. (mA)
	nH	Tol. %		L	Q @900 MHz			
PM0603-2N2-RC	2.2	±15	16	250	31	6900	0.08	700
PM0603-3N9-RC	3.9	±10	22	250	51	6900	0.08	700
PM0603-4N7-RC	4.7	±10	20	250	47	5800	0.13	700
PM0603-6N8J-RC	6.8	±5	30	250	63	5800	0.11	700
PM0603-8N2J-RC	8.2	±5	28	250	72	4600	0.10	700
PM0603-10NJ-RC	10	±5	35	250	66	3800	0.13	700
PM0603-12NJ-RC	12	±5	38	250	72	4000	0.17	700
PM0603-15NJ-RC	15	±5	38	250	68	4000	0.17	700
PM0603-18NJ-RC	18	±5	40	250	77	3100	0.22	700
PM0603-22NJ-RC	22	±5	43	250	70	3000	0.22	700
PM0603-27NJ-RC	27	±5	43	250	75	2800	0.22	600
PM0603-33NJ-RC	33	±5	43	250	78	2300	0.22	600
PM0603-39NJ-RC	39	±5	40	250	66	2200	0.25	600
PM0603-47NJ-RC	47	±5	40	200	65	2000	0.28	600
PM0603-56NJ-RC	56	±5	35	200	66	1900	0.31	600
PM0603-68NJ-RC	68	±5	35	200	57	1700	0.34	600
PM0603-72NJ-RC	72	±5	35	200	60	1700	0.49	400
PM0603-82NJ-RC	82	±5	35	150	58	1700	0.54	400
PM0603-R10J-RC	100	±5	35	150	51	1400	0.63	400
PM0603-R12J-RC	120	±5	35	150	45	1300	0.65	300
PM0603-R15J-RC	150	±5	35	150	33	1000	0.92	280
PM0603-R18J-RC	180	±5	30	100	26	1000	1.25	240
PM0603-R22J-RC	220	±5	30	100	23	1000	1.70	200
PM0603-R27J-RC	270	±5	30	100	10	1000	1.80	170

Soldering Profile



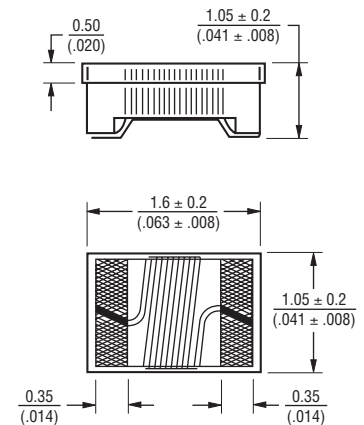
General Specifications

Temperature Rise 15 °C max. at rated current
 Operating Temperature -40 °C to +125 °C
 Storage Temperature -40 °C to +125 °C

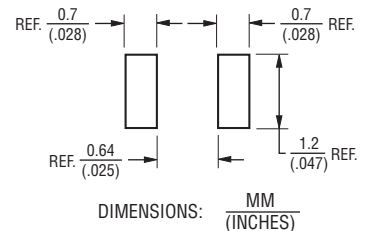
Materials

Core Material Alumina
 (1CC150707-302291))
 Wire Enamelled Copper (1W1E180)
 Terminal Ag/Ni/Au
 Encapsulate Epoxy (1EAS-UV300)
 Packaging 3,000 pcs per reel

Product Dimensions



Recommended Layout



Additional Information

Click these links for more information:



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
 See www.P65Warnings.ca.gov

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 Users should verify actual device performance in their specific applications.
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BOURNS®

Technical drawing of a 3.5mm floppy diskette showing top, side, and end views with dimensions in inches and millimeters.

Top View Dimensions:

- Overall Diameter: 178.0 ± 0.5 (7.00) DIA.
- Inner Hole Diameter: 13.0 ± 0.5 (.512 $\pm$.020) DIA.
- Inner Hole Position: 21.0 ± 0.8 (.827 $\pm$.031)
- Outer Hole Diameter: 10.0 (.394)
- Outer Hole Position: 13.0 ± 0.5 (.512 $\pm$.020) DIA.
- Outer Hole Thickness: 60.0 (2.362)
- Outer Hole Width: 8.0 (.315)

Side View Dimensions:

- Thickness: 0.10 (.004) MAX.
- Embossed Cavity
- Embossed Carrier
- Embossed Carrier Width: 8.0 (.315)

End View Dimensions:

- Overall Width: 1.9 (.075)
- Inner Hole Diameter: 1.50 (.059) DIA.
- Inner Hole Position: 2.0 (.079)
- Inner Hole Thickness: 4.0 (.157)
- Inner Hole Width: 1.35 (.053)
- Inner Hole Position: 4.0 (.157)
- Inner Hole Thickness: 1.75 (.069)
- Inner Hole Width: 0.28 (.011)
- Inner Hole Position: 8.0 (.315)
- Inner Hole Thickness: 3.50 (.138)
- Inner Hole Width: 1.15 (.045)

USER DIRECTION OF FEED

3,000 PCS. PER REEL

DIMENSIONS: MM (INCHES)

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- Bourns expressly identifies Bourns® standard products that are suitable for use in the typical aviation applications/systems requiring System Design Assurance Level (RTCA DO-254 DAL) of C, D or E in its publication entitled "Bourns Civilian Aerospace/Aviation Grade Component Guide." Bourns does not test its products for compliance with United States Federal Aviation Administration standards or any other generally equivalent governmental organization standard applicable to products designed or manufactured for use in aviation applications. Use of Bourns® standard components in aviation applications associated with RTCA DO-254 DAL A or B without proper approval noted above shall be at the user's sole risk.
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