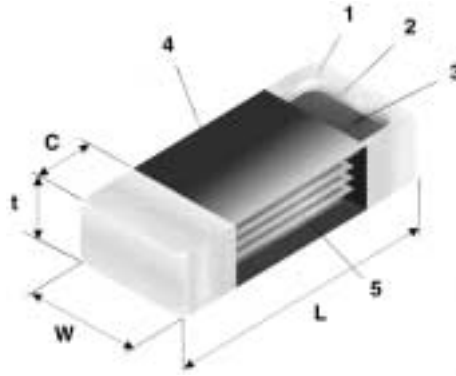


**MULTILAYER
FERRITE INDUCTORS
MCL (MCI)**



STRUCTURE

- 1 Solder plating
- 2 Diffusion barrier
- 3 Silver metallisation
- 4 Ferrite
- 5 Electrodes



IDENTIFICATION

TYPE	COATING COLOR	MARKING
MCL	Black	None

TYPE DESIGNATION (HOW TO ORDER)

Old Part No.	MCI	0805	H		K	TE	821	
New Part No.	MCL	2A	H	L		TE	821	K
	PRODUCT CODE	SIZE	PERMEABILITY CODE	TERMINATION SURFACE MATERIAL	INDUCTANCE TOLERANCE	TAPING*	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE
		1J = 0603 2A = 0805 2B = 1206	H, J	L: Sn/Pb T: Sn		*Please see "PACKAGING"	3 digits	M(±20%), K(+10%), J(±5%)

FEATURES

- Monolithic structure for closed magnetic path eliminates crosstalk and provides high reliability in wide temperature and humidity range
- Anti-leaching nickel barrier terminations
- Magnetically shielded
- 90/10 solder plated terminations
- Wide range of electrical properties
- Suitable for prevention of electromagnetic interference to signal for high density circuits in disk drives, personal computers, measuring and telephone equipment
- Operating temperature range: -25° C ... +85° C
- Suitable for reflow and wave soldering
- Lab kit available

DIMENSIONS (mm)

SIZE	L	W	t	c
0603 (1J)	1.60 ± 0.15	0.80 ± 0.15	0.80 ± 0.15	0.36 ± 0.15
0805 (2A)	2.00 ± 0.20	1.25 ± 0.20	0.90 ± 0.20	0.51 ± 0.25
1206 (2B)	3.20 ± 0.20	1.60 ± 0.20	1.10 ± 0.20	0.51 ± 0.25

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MULTILAYER, FERRITE INDUCTORS, MCL - SERIES

RATING

TYPE	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE	QUALITY FACTOR (MIN.)	L/Q MEASURING FREQUENCY	SELF-RESONANT FREQUENCY (MIN.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
MCL 1J H TE 047	0.047 µH	J(±5%) K(±10%) M(+20%)	10	50 MHz	260 MHz	0.30 K	50 mA
MCL 1J H TE 068	0.068 µH				250 MHz		
MCL 1J H TE 082	0.082 µH				245 MHz		
MCL 1J H TE R10	0.10 µH				240 MHz		
MCL 1J H TE R12	0.12 µH				205 MHz		
MCL 1J H TE R15	0.15 µH				180 MHz		
MCL 1J H TE R18	0.18 µH				165 MHz		
MCL 1J H TE R22	0.22 µH				150 MHz		
MCL 1J H TE R27	0.27 µH				136 MHz		
MCL 1J H TE R33	0.33 µH				125 MHz		
MCL 1J H TE R39	0.39 µH		110 MHz	0.50 K	35 mA		
MCL 1J H TE R47	0.47 µH		105 MHz				
MCL 1J H TE R56	0.56 µH		95 MHz				
MCL 1J H TE R68	0.68 µH		90 MHz				
MCL 1J H TE R82	0.82 µH		85 MHz				
MCL 1J J TE 1R0	1.0 µH		75 MHz				
MCL 1J J TE 1R2	1.2 µH		65 MHz				
MCL 1J J TE 1R5	1.5 µH		60 MHz				
MCL 1J J TE 1R8	1.8 µH		55 MHz				
MCL 1J J TE 2R2	2.2 µH		50 MHz			0.80 K	25 mA
MCL 1J J TE 2R7	2.7 µH		45 MHz				
MCL 1J J TE 3R3	3.3 µH		40 MHz				
MCL 1J J TE 3R9	3.9 µH		35 MHz				
MCL 1J J TE 4R7	4.7 µH		33 MHz				
MCL 1J J TE 5R6	5.6 µH		22 MHz				
MCL 1J J TE 6R8	6.8 µH		20 MHz				
MCL 1J J TE 8R2	8.2 µH		18 MHz				
MCL 1J J TE 10R	10 µH		17 MHz				
MCL 1J J TE 12R	12 µH		15 MHz	1.00 K	15 mA		
MCL 2A H TE 047	0.047 µH		320 MHz				
MCL 2A H TE 068	0.068 µH		280 MHz				
MCL 2A H TE 082	0.082 µH		255 MHz				
MCL 2A H TE R10	0.10 µH		235 MHz				
MCL 2A H TE R12	0.12 µH		220 MHz				
MCL 2A H TE R15	0.15 µH		200 MHz				
MCL 2A H TE R18	0.18 µH		185 MHz				
MCL 2A H TE R22	0.22 µH		170 MHz				
MCL 2A H TE R27	0.27 µH		150 MHz			0.50 K	250 mA
MCL 2A H TE R33	0.33 µH		145 MHz				
MCL 2A H TE R39	0.39 µH		135 MHz				
MCL 2A H TE R47	0.47 µH		125 MHz				
MCL 2A H TE R56	0.56 µH		115 MHz				
MCL 2A H TE R68	0.68 µH		105 MHz				
MCL 2A H TE R82	0.82 µH		100 MHz				
MCL 2A J TE 1R0	1.0 µH		75 MHz				
MCL 2A J TE 1R2	1.2 µH		65 MHz				
MCL 2A J TE 1R5	1.5 µH		60 MHz				
MCL 2A J TE 1R8	1.8 µH		55 MHz	0.40 K	200 mA		
MCL 2A J TE 2R2	2.2 µH		50 MHz				
MCL 2A J TE 2R7	2.7 µH		45 MHz				
MCL 2A J TE 3R3	3.3 µH		41 MHz				
MCL 2A J TE 3R9	3.9 µH		38 MHz				
MCL 2A J TE 4R7	4.7 µH		35 MHz				
MCL 2A J TE 5R6	5.6 µH		32 MHz				
MCL 2A J TE 6R8	6.8 µH		29 MHz				
MCL 2A J TE 8R2	8.2 µH		26 MHz				
MCL 2A J TE 10R	10 µH		24 MHz			0.65 K	150 mA
MCL 2A J TE 12R	12 µH		22 MHz				
MCL 2A H TE 047	0.047 µH		320 MHz				
MCL 2A H TE 068	0.068 µH		280 MHz				
MCL 2A H TE R10	0.10 µH		235 MHz				
MCL 2A H TE R12	0.12 µH		220 MHz				
MCL 2A H TE R15	0.15 µH		200 MHz				
MCL 2A H TE R18	0.18 µH		185 MHz				
MCL 2A H TE R22	0.22 µH		170 MHz				
MCL 2A H TE R27	0.27 µH		150 MHz	0.50 K	300 mA		
MCL 2A H TE R33	0.33 µH		145 MHz				
MCL 2A H TE R39	0.39 µH		135 MHz				
MCL 2A H TE R47	0.47 µH		125 MHz				
MCL 2A H TE R56	0.56 µH		115 MHz				
MCL 2A H TE R68	0.68 µH		105 MHz				
MCL 2A H TE R82	0.82 µH		100 MHz				
MCL 2A J TE 1R0	1.0 µH		75 MHz				
MCL 2A J TE 1R2	1.2 µH		65 MHz				
MCL 2A J TE 1R5	1.5 µH		60 MHz				
MCL 2A J TE 1R8	1.8 µH		55 MHz	0.40 K	250 mA		
MCL 2A J TE 2R2	2.2 µH		50 MHz				
MCL 2A J TE 2R7	2.7 µH		45 MHz				
MCL 2A J TE 3R3	3.3 µH		41 MHz				
MCL 2A J TE 3R9	3.9 µH		38 MHz				
MCL 2A J TE 4R7	4.7 µH		35 MHz				
MCL 2A J TE 5R6	5.6 µH		32 MHz				
MCL 2A J TE 6R8	6.8 µH		29 MHz				
MCL 2A J TE 8R2	8.2 µH		26 MHz				
MCL 2A J TE 10R	10 µH		24 MHz			0.60 K	200 mA
MCL 2A J TE 12R	12 µH		22 MHz				
MCL 2B H TE 047	0.047 µH		320 MHz				
MCL 2B H TE 068	0.068 µH		280 MHz				
MCL 2B H TE R10	0.10 µH		235 MHz				
MCL 2B H TE R12	0.12 µH		220 MHz				
MCL 2B H TE R15	0.15 µH		200 MHz				
MCL 2B H TE R18	0.18 µH		185 MHz				
MCL 2B H TE R22	0.22 µH		170 MHz				
MCL 2B H TE R27	0.27 µH		150 MHz	0.50 K	250 mA		
MCL 2B H TE R33	0.33 µH		145 MHz				
MCL 2B H TE R39	0.39 µH		135 MHz				
MCL 2B H TE R47	0.47 µH		125 MHz				
MCL 2B H TE R56	0.56 µH		115 MHz				
MCL 2B H TE R68	0.68 µH		105 MHz				
MCL 2B H TE R82	0.82 µH		100 MHz				
MCL 2B J TE 1R0	1.0 µH		75 MHz				
MCL 2B J TE 1R2	1.2 µH		65 MHz				
MCL 2B J TE 1R5	1.5 µH		60 MHz				
MCL 2B J TE 1R8	1.8 µH		55 MHz	0.40 K	200 mA		
MCL 2B J TE 2R2	2.2 µH		50 MHz				
MCL 2B J TE 2R7	2.7 µH		45 MHz				
MCL 2B J TE 3R3	3.3 µH		41 MHz				
MCL 2B J TE 3R9	3.9 µH		38 MHz				
MCL 2B J TE 4R7	4.7 µH		35 MHz				
MCL 2B J TE 5R6	5.6 µH		32 MHz				
MCL 2B J TE 6R8	6.8 µH		29 MHz				
MCL 2B J TE 8R2	8.2 µH		26 MHz				
MCL 2B J TE 10R	10 µH		24 MHz			0.50 K	150 mA
MCL 2B J TE 12R	12 µH		22 MHz				
MCL 2B H TE 047	0.047 µH		320 MHz				
MCL 2B H TE 068	0.068 µH		280 MHz				
MCL 2B H TE R10	0.10 µH		235 MHz				
MCL 2B H TE R12	0.12 µH		220 MHz				
MCL 2B H TE R15	0.15 µH		200 MHz				
MCL 2B H TE R18	0.18 µH		185 MHz				
MCL 2B H TE R22	0.22 µH	170 MHz					
MCL 2B H TE R27	0.27 µH	150 MHz	0.60 K	50 mA			
MCL 2B H TE R33	0.33 µH	145 MHz					
MCL 2B H TE R39	0.39 µH	135 MHz					
MCL 2B H TE R47	0.47 µH	125 MHz					
MCL 2B H TE R56	0.56 µH	115 MHz					
MCL 2B H TE R68	0.68 µH	105 MHz					
MCL 2B H TE R82	0.82 µH	100 MHz					
MCL 2B J TE 1R0	1.0 µH	75 MHz					
MCL 2B J TE 1R2	1.2 µH	65 MHz					
MCL 2B J TE 1R5	1.5 µH	60 MHz					
MCL 2B J TE 1R8	1.8 µH	55 MHz	0.70 K	45 mA			
MCL 2B J TE 2R2	2.2 µH	50 MHz					
MCL 2B J TE 2R7	2.7 µH	45 MHz					
MCL 2B J TE 3R3	3.3 µH	41 MHz					
MCL 2B J TE 3R9	3.9 µH	38 MHz					
MCL 2B J TE 4R7	4.7 µH	35 MHz					
MCL 2B J TE 5R6	5.6 µH	32 MHz					
MCL 2B J TE 6R8	6.8 µH	29 MHz					
MCL 2B J TE 8R2	8.2 µH	26 MHz					
MCL 2B J TE 10R	10 µH	24 MHz			0.85 K	25 mA	
MCL 2B J TE 12R	12 µH	22 MHz					
MCL 2B H TE 047	0.047 µH	320 MHz					
MCL 2B H TE 068	0.068 µH	280 MHz					
MCL 2B H TE R10	0.10 µH	235 MHz					
MCL 2B H TE R12	0.12 µH	220 MHz					
MCL 2B H TE R15	0.15 µH	200 MHz					
MCL 2B H TE R18	0.18 µH	185 MHz					
MCL 2B H TE R22	0.22 µH	170 MHz					
MCL 2B H TE R27	0.27 µH	150 MHz	1.00 K	15 mA			
MCL 2B H TE R33	0.33 µH	145 MHz					
MCL 2B H TE R39	0.39 µH	135 MHz					
MCL 2B H TE R47	0.47 µH	125 MHz					
MCL 2B H TE R56	0.56 µH	115 MHz					
MCL 2B H TE R68	0.68 µH	105 MHz					
MCL 2B H TE R82	0.82 µH	100 MHz					
MCL 2B J TE 1R0	1.0 µH	75 MHz					
MCL 2B J TE 1R2	1.2 µH	65 MHz					
MCL 2B J TE 1R5	1.5 µH	60 MHz					
MCL 2B J TE 1R8	1.8 µH	55 MHz	1.05 K	5 mA			
MCL 2B J TE 2R2	2.2 µH	50 MHz					
MCL 2B J TE 2R7	2.7 µH	45 MHz					
MCL 2B J TE 3R3	3.3 µH	41 MHz					
MCL 2B J TE 3R9	3.9 µH	38 MHz					
MCL 2B J TE 4R7	4.7 µH	35 MHz					
MCL 2B J TE 5R6	5.6 µH	32 MHz					
MCL 2B J TE 6R8	6.8 µH	29 MHz					
MCL 2B J TE 8R2	8.2 µH	26 MHz					
MCL 2B J TE 10R	10 µH	24 MHz					
MCL 2B J TE 12R	12 µH	22 MHz					
MCL 2B J TE 15R	15 µH	19 MHz	0.70 K	5 mA			
MCL 2B J TE 18R	18 µH	18 MHz					

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INDUCTORS