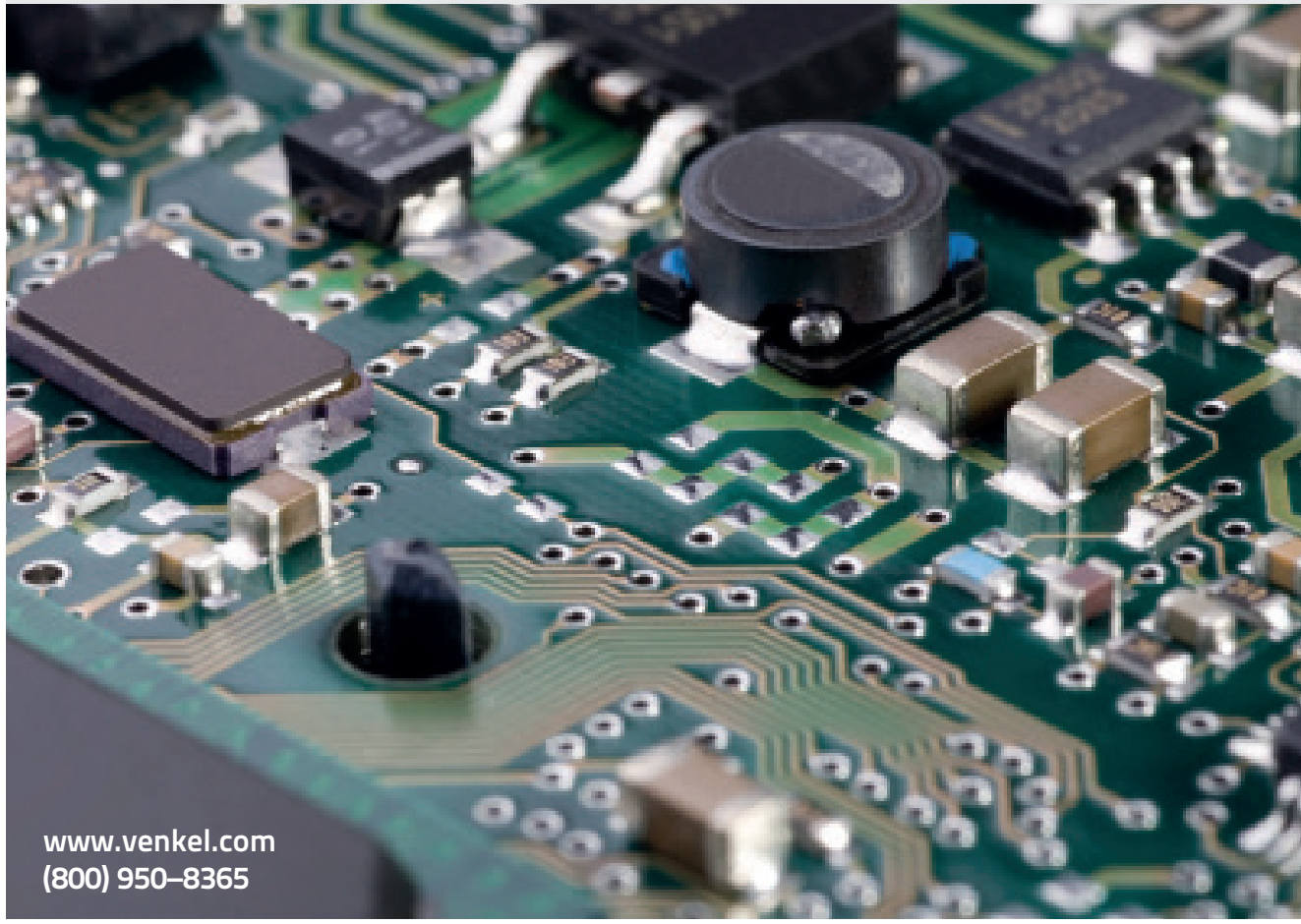
VENKEL LTD.

GENERAL PURPOSE MULTILAYER INDUCTORS



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MLF SERIES

Multilayer Inductors contain a Ferrite monolithic internal structure for high reliability and high heat resistance, which is good for noise suppression, Resonance, PLL and low frequency filter circuits.

PRODUCT CROSSES TO:

Manufacturer	Series
Bourns	CV
Samsung	CIL
TDK	MLF
Taiyo Yuden	LK
Murata	LQM

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Manufacturer	Series/Description	Pg#
BOURNS	CV	3
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NOTE: Please be aware that manufacturer part data is subject to change without notice. All information is provided in good faith, based on information available at the time of document creation. All part number specifications should be verified to confirm equivalence.

BOURNS

BOURNS PART NUMBER: CV201210-5R6K CROSSES TO VENKEL PART NUMBER: MLF2012-47NMT

Bourns Part Number Structure

CV	2012	5R6	K
SERIES	**SIZE**	**INDUCTANCE VALUE**	**TOLERANCE**
CV CI	CV2012 = 0805 CI1608 = 0603	R047 = 0.047uH R22 = 0.22uH 3R3 = 3.3uH	K = ± 10 % M = ± 20 %

Venkel Part Number Structure

MLF	1608	-	47N	M	T
SERIES	**SIZE**		**INDUCTANCE VALUE**	**TOLERANCE**	**PACKAGING**
	1608 2012		47N = 0.047uH R39 = 0.39Uh 8R2 = 8.2uH	K= ±5% M = ±10%	T= Tape

SAMSUNG

SAMSUNG PART NUMBER: CIL10Y47NMNC CROSSES TO VENKEL PART NUMBER: MLF1608-47NMT

Samsung Part Number Structure

CIL	10	Y	5R6	K	N	C
SERIES	**SIZE**	**MATERIAL CODE**	**INDUCTANCE VALUE**	**TOLERANCE**	**THICKNESS**	**PACKAGING**
	10 = 0603 21 = 0805	Y = Standard (Ferrite)	47N = 0.047uH R39 = 0.39Uh 8R2 = 8.2uH	K = ± 10% M = ± 20%	N = Standard	C = 7" Reel (paper) E = Embossed 7" Reel

Venkel Part Number Structure

MLF	1608	-	47N	M	T
SERIES	**SIZE**		**INDUCTANCE VALUE**	**TOLERANCE**	**PACKAGING**
	1608 2012		47N = 0.047uH R39 = 0.39Uh 8R2 = 8.2uH	K= ±5% M = ±10%	T= Tape

TDK

TDK PART NUMBER: MLF2012D47NMT CROSSES TO VENKEL PART NUMBER: MLF1608-47NMT

TDK Part Number Structure

MLF	2012	D	47N	M	T
SERIES	**SIZE**	**CHARACTERISTICS**	**INDUCTION**	**TOLERANCE**	**PACKAGING**
MLF	1608 = 1608 2012 = 0805	A C D E G K L V	10N = 0.01uH R10 = 0.1uH 1R0 = 1uH 100 = 10uH	K = ± 10% M = ± 0%	T = Taping

Venkel Part Number Structure

MLF	1608	-	47N	M	T
SERIES	**SIZE**		**INDUCTANCE VALUE**	**TOLERANCE**	**PACKAGING**
	1608 2012		47N = 0.047uH R39 = 0.39Uh 8R2 = 8.2uH	K= ±5% M = ±10%	T= Tape

TAIYO-YUDEN

TAIYO-YUDEN PART NUMBER: LK212547N-T CROSSES TO VENKEL PART NUMBER: MLF2012-47NMT

Taiyo-Yuden Part Number Structure

LK	2125	R10	M	-	T
SERIES	**SIZE**	**INDUCTANCE VALUE**	**TOLERANCE**		**PACKAGING**
	1608 = 1608 2125 = 0805	Standard three digit code 47N = 0.047uH or 47nH R10 = 0.1uH 1R0 = 1uH 100 = 10uH	K = ±10% M = ±20%		T = Tape

Venkel Part Number Structure

MLF	1608	-	47N	M	T
SERIES	**SIZE**		**INDUCTANCE VALUE**	**TOLERANCE**	**PACKAGING**
	1608 2012		47N = 0.047uH R39 = 0.39Uh 8R2 = 8.2uH	K= ±5% M = ±10%	T= Tape

MURATA

MURATA PART NUMBER: LQM218NN47NM00D CROSSES TO VENKEL PART NUMBER: MLF2012-47NMT

Murata Part Number Structure

LQ	M	18	N	N	47N	M	0	0	D
SERIES	**STRUCTURE**	**SIZE**	**CHARACTERISTICS**	**CATEGORY**	**INDUCTANCE VALUE**	**TOLERANCE**	**FEATURES**	**ELECTRODE**	**PACKAGING**
	B = Multilayer Type (Ferrite Core) M = Multilayer Type (Ferrite Core)	18 = 1608 21 = 0805	N = LQB/LQM, for Resonant Circuit N = LQH, for Resonant Circuit M = LQH, for Resonant Circuit (Coating Type)	N = Standard Type	47N = 0.047uH or 47nH R10 = 0.1uH 1R0 = 1uH 100 = 10uH	K = ±10% M = ±20%	0 = Standard Type, LQM / LQH 1 = Standard Type, LQB/ LQM21N 2 = Standard Type, LQH32M	0 = LQB/LQM 3 = LQH	D = Paper Taping (ø180mm Reel)

Venkel Part Number Structure

MLF	1608	-	47N	M	T
SERIES	**SIZE**		**INDUCTANCE VALUE**	**TOLERANCE**	**PACKAGING**
	1608 2012		47N = 0.047uH R39 = 0.39Uh 8R2 = 8.2uH	K= ±5% M = ±10%	T= Tape

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