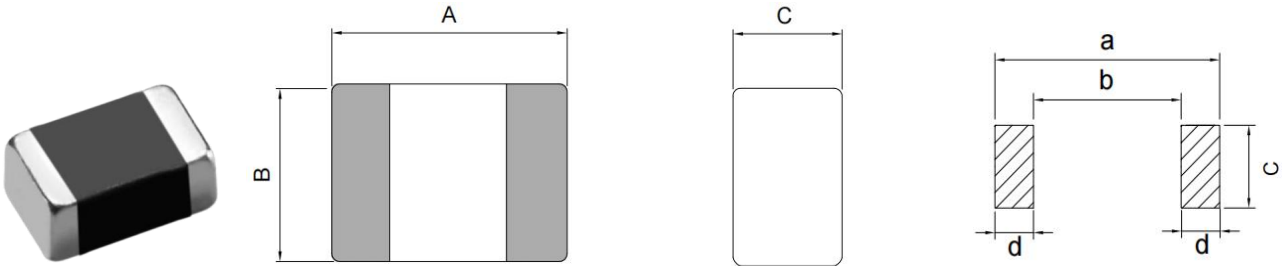


■ Multilayer Chip Inductors

结构及外形尺寸 Dimensions of structure and shape



Part Number	Dimensions	Dimensions	Dimensions	Land Patterns		
	长 A (mm)	宽 B(mm)	高 C(mm)	推荐焊盘尺寸		
	A (mm)	B(mm)	C(mm)	a(mm)	b(mm)	c(mm)
GCFL1005N	1.00±0.15	0.50±0.15	0.50±0.15	1.40	0.40	0.80
GCFL1608N	1.60±0.15	0.80±0.15	0.80±0.15	2.00	0.60	1.00
GCFL2012N	2.00±0.20	1.25±0.20	0.85±0.20	2.90	0.80	1.40
GCFL3216N	3.20±0.20	1.60±0.20	1.10±0.30	3.50	1.70	1.80

特点 Features

- 独石结构确保高信赖性
- Monolithic structure for high reliability
- 经磁性保护, 电感间无交互耦合现象, 适合高密度的印刷电路板。
- No cross coupling between inductors due to magnetic shield and is suitable for high density printed circuit boards.
- 优良的焊锡性及耐热性, 适合 Flow 及 Reflow 两种焊锡方式
- Excellent solderability and high heat resistance for either flow or reflow soldering.

应用 Applications

- 移动通讯 智能手机 导航设备
- Mobile phone, smart phone, PND.
- 主板、平板电脑、笔记本、台式电脑及其周边设备
- Mother board, tablet PC, notebook, desktop computers and peripheral equipment.
- 数码相机、录影机、液晶电视、机顶盒
- DSC, DVC, LCD Television, Set Top Box.
- 各种汽车设备
- Various automotive electronics.
- 缺乏稳定的电路
- Circuit where a stable ground is unavailable.

电感特性范围 Inductance and rated current ranges

GCFL1005N	0.10~3.3uH	800~2700mΩ	25~10mA
GCFL1608N	0.10~33uH	500~2950mΩ	50~1mA
GCFL2012N	0.10~100uH	300~3100mΩ	250~2mA
GCFL3216N	0.10~100uH	250~3000mΩ	250~5mA

包装数量 Packaging Quantity

GCFL1005N	10000PCS/R
GCFL1608N	4000PCS/R
GCFL2012N	4000PCS/R
GCFL3216N	3000PCS/R

★ 产品可以按客户要求定制

Products can be customized according to customer requirements

本产品符合车载信赖性标准AEC-Q200

This product Complied with automotive reliability test standard AEC-Q200



GCFL Series (MULTILAYER)

■ ELECTRICAL SPECIFICATION

GCFL1005N Series (Quantity: 10000PCS)/GCFL1005N 系列 (数量: 10000PCS)

Part Number	Inductance (μ H)	Test Freq. (MHz)	Q min	Rated DC Current(mA)	DCR (Ω) max.	SRF (MHz)min.
GCFL1005N-R10K01	0.10 \pm 10%	25	0.80	25	0.80	200
GCFL1005N-R12K01	0.12 \pm 10%	25	0.80	25	0.80	165
GCFL1005N-R15K01	0.15 \pm 10%	25	0.90	25	0.90	140
GCFL1005N-R18K01	0.18 \pm 10%	25	0.90	25	0.90	120
GCFL1005N-R22K01	0.22 \pm 10%	25	1.20	25	1.20	110
GCFL1005N-R27K01	0.27 \pm 10%	25	1.20	25	1.20	95
GCFL1005N-R33K01	0.33 \pm 10%	25	1.25	18	1.25	85
GCFL1005N-R39K01	0.39 \pm 10%	25	0.60	15	0.60	85
GCFL1005N-R47K01	0.47 \pm 10%	10	0.70	15	0.70	80
GCFL1005N-R56K01	0.56 \pm 10%	10	0.80	15	0.80	75
GCFL1005N-R68K01	0.68 \pm 10%	10	0.90	15	0.90	70
GCFL1005N-R82K01	0.82 \pm 10%	10	0.90	15	0.90	65
GCFL1005N-1R0K01	1.0 \pm 10%	10	1.00	15	1.00	60
GCFL1005N-1R2K01	1.2 \pm 10%	10	1.25	25	1.25	55
GCFL1005N-1R5K01	1.5 \pm 10%	10	1.40	15	1.40	45
GCFL1005N-1R8K01	1.8 \pm 10%	10	1.55	15	1.55	40
GCFL1005N-2R2K01	2.2 \pm 10%	10	1.70	10	1.70	28
GCFL1005N-2R7K01	2.7 \pm 10%	10	2.40	10	2.40	28
GCFL1005N-3R3K01	3.3 \pm 10%	10	2.70	10	2.70	28



GCFL Series (MULTILAYER)

ELECTRICAL SPECIFICATION

GCFL1608N Series (Quantity: 4000PCS)/GCFL1608N 系列 (数量: 4000PCS)

Part Number	Inductance (μ H)	Test Freq. (MHz)	Q min	Rated DC Current(mA)	DCR (Ω) max.	SRF (MHz)min.
GCFL1608N-R10K01	0.10 \pm 10%	25	15	50	0.50	240
GCFL1608N-R12K01	0.12 \pm 10%	25	15	50	0.50	205
GCFL1608N-R15K01	0.15 \pm 10%	25	15	50	0.60	180
GCFL1608N-R18K01	0.18 \pm 10%	25	15	50	0.60	165
GCFL1608N-R22K01	0.22 \pm 10%	25	15	50	0.80	150
GCFL1608N-R27K01	0.27 \pm 10%	25	15	50	0.80	136
GCFL1608N-R33K01	0.33 \pm 10%	25	15	35	0.85	125
GCFL1608N-R39K01	0.39 \pm 10%	25	15	35	1.00	110
GCFL1608N-R47K01	0.47 \pm 10%	25	15	35	1.35	105
GCFL1608N-R56K01	0.56 \pm 10%	25	15	35	1.55	95
GCFL1608N-R68K01	0.68 \pm 10%	25	15	35	1.70	90
GCFL1608N-R82K01	0.82 \pm 10%	25	15	35	2.10	85
GCFL1608N-1R0K01	1.0 \pm 10%	10	35	25	0.60	75
GCFL1608N-1R2K01	1.2 \pm 10%	10	35	25	0.80	65
GCFL1608N-1R5K01	1.5 \pm 10%	10	35	25	0.80	60
GCFL1608N-1R8K01	1.8 \pm 10%	10	35	25	0.95	55
GCFL1608N-2R2K01	2.2 \pm 10%	10	35	15	1.15	50
GCFL1608N-2R7K01	2.7 \pm 10%	10	35	15	1.35	45
GCFL1608N-3R3K01	3.3 \pm 10%	10	35	15	1.55	40
GCFL1608N-3R9K01	3.9 \pm 10%	10	35	15	1.70	35
GCFL1608N-4R7K01	4.7 \pm 10%	10	35	15	2.10	33
GCFL1608N-5R6K01	5.6 \pm 10%	4	35	5	1.55	22
GCFL1608N-6R8K01	6.8 \pm 10%	4	35	5	1.70	20
GCFL1608N-8R2K01	8.2 \pm 10%	4	35	4	2.10	18
GCFL1608N-100K01	10 \pm 10%	2	30	2	1.85	17
GCFL1608N-120K01	12 \pm 10%	2	30	2	2.10	15
GCFL1608N-150K01	15 \pm 10%	1	20	1	1.70	14
GCFL1608N-180K01	18 \pm 10%	1	20	1	2.00	13
GCFL1608N-220K01	22 \pm 10%	1	20	1	2.10	11
GCFL1608N-270K01	27 \pm 10%	1	20	1	2.75	10
GCFL1608N-330K01	33 \pm 10%	1	20	1	2.95	9



GCFL Series (MULTILAYER)

ELECTRICAL SPECIFICATION

GCFL2012N Series (Quantity: 3000PCS)/GCFL2012N 系列 (数量: 3000PCS)

Part Number	Inductance (μ H)	Test Freq. (MHz)	Q min	Rated DC Current(mA)	DCR (Ω) max.	SRF (MHz)min.
GCFL2012N-R10K01	0.10 \pm 10%	25	20	250	0.30	235
GCFL2012N-R12K01	0.12 \pm 10%	25	20	250	0.30	220
GCFL2012N-R15K01	0.15 \pm 10%	25	20	250	0.40	200
GCFL2012N-R18K01	0.18 \pm 10%	25	20	250	0.40	185
GCFL2012N-R22K01	0.22 \pm 10%	25	20	250	0.50	170
GCFL2012N-R27K01	0.27 \pm 10%	25	20	250	0.50	150
GCFL2012N-R33K01	0.33 \pm 10%	25	20	250	0.55	145
GCFL2012N-R39K01	0.39 \pm 10%	25	25	200	0.65	135
GCFL2012N-R47K01	0.47 \pm 10%	25	25	200	0.65	125
GCFL2012N-R56K01	0.56 \pm 10%	25	25	150	0.75	115
GCFL2012N-R68K01	0.68 \pm 10%	25	25	150	0.80	105
GCFL2012N-R82K01	0.82 \pm 10%	25	25	150	1.00	100
GCFL2012N-1R0K01	1.0 \pm 10%	10	45	50	0.40	75
GCFL2012N-1R2K01	1.2 \pm 10%	10	45	50	0.50	65
GCFL2012N-1R5K01	1.5 \pm 10%	10	45	50	0.50	60
GCFL2012N-1R8K01	1.8 \pm 10%	10	45	50	0.60	55
GCFL2012N-2R2K01	2.2 \pm 10%	10	45	30	0.65	50
GCFL2012N-2R7K01	2.7 \pm 10%	10	45	30	0.75	45
GCFL2012N-3R3K01	3.3 \pm 10%	10	45	30	0.80	41
GCFL2012N-3R9K01	3.9 \pm 10%	10	45	30	0.90	38
GCFL2012N-4R7K01	4.7 \pm 10%	10	45	30	1.00	35
GCFL2012N-5R6K01	5.6 \pm 10%	4	50	15	0.90	32
GCFL2012N-6R8K01	6.8 \pm 10%	4	50	15	1.00	29
GCFL2012N-8R2K01	8.2 \pm 10%	4	50	15	1.10	26
GCFL2012N-100K01	10 \pm 10%	2	50	15	1.15	24
GCFL2012N-120K01	12 \pm 10%	2	50	15	1.25	22
GCFL2012N-150K01	15 \pm 10%	1	30	5	0.80	19
GCFL2012N-180K01	18 \pm 10%	1	30	5	0.90	18
GCFL2012N-220K01	22 \pm 10%	1	30	5	1.10	16
GCFL2012N-270K01	27 \pm 10%	1	30	5	1.15	14
GCFL2012N-330K01	33 \pm 10%	1	30	5	1.25	13
GCFL2012N-390K01	39 \pm 10%	1	35	4	2.90	8.00
GCFL2012N-470K01	47 \pm 10%	2	35	4	3.00	7.50
GCFL2012N-101K01	100 \pm 10%	1	25	2	3.10	7.00



GCFL Series (MULTILAYER)

■ ELECTRICAL SPECIFICATION

GCFL3216N Series (Quantity: 3000PCS)/GCFL3216N 系列 (数量: 3000PCS)

Part Number	Inductance (μ H)	Test Freq. (MHz)	Q min	Rated DC Current(mA)	DCR (Ω) max.	SRF (MHz)min.
GCFL3216N-R10K01	0.10 \pm 10%	25	20	250	0.25	235
GCFL3216N-R12K01	0.12 \pm 10%	25	20	250	0.30	220
GCFL3216N-R15K01	0.15 \pm 10%	25	20	250	0.30	200
GCFL3216N-R18K01	0.18 \pm 10%	25	20	250	0.40	185
GCFL3216N-R22K01	0.22 \pm 10%	25	20	250	0.40	170
GCFL3216N-R27K01	0.27 \pm 10%	25	20	250	0.50	150
GCFL3216N-R33K01	0.33 \pm 10%	25	20	250	0.60	145
GCFL3216N-R39K01	0.39 \pm 10%	25	25	250	0.50	135
GCFL3216N-R47K01	0.47 \pm 10%	25	25	200	0.60	125
GCFL3216N-R56K01	0.56 \pm 10%	25	25	200	0.70	115
GCFL3216N-R68K01	0.68 \pm 10%	25	25	150	0.80	105
GCFL3216N-R82K01	0.82 \pm 10%	25	25	150	0.90	100
GCFL3216N-1R0K01	1.0 \pm 10%	10	45	100	0.40	75
GCFL3216N-1R2K01	1.2 \pm 10%	10	45	100	0.50	65
GCFL3216N-1R5K01	1.5 \pm 10%	10	45	50	0.50	60
GCFL3216N-1R8K01	1.8 \pm 10%	10	45	50	0.50	55
GCFL3216N-2R2K01	2.2 \pm 10%	10	45	50	0.60	50
GCFL3216N-2R7K01	2.7 \pm 10%	10	45	50	0.60	45
GCFL3216N-3R3K01	3.3 \pm 10%	10	45	50	0.70	41
GCFL3216N-3R9K01	3.9 \pm 10%	10	45	50	0.80	38
GCFL3216N-4R7K01	4.7 \pm 10%	10	45	50	0.90	35
GCFL3216N-5R6K01	5.6 \pm 10%	4	50	25	0.70	32
GCFL3216N-6R8K01	6.8 \pm 10%	4	50	25	0.80	29
GCFL3216N-8R2K01	8.2 \pm 10%	4	50	25	0.90	26
GCFL3216N-100K01	10 \pm 10%	2	50	25	1.00	24
GCFL3216N-120K01	12 \pm 10%	2	50	15	1.05	22
GCFL3216N-150K01	15 \pm 10%	1	35	5	0.70	19
GCFL3216N-180K01	18 \pm 10%	1	35	5	0.70	18
GCFL3216N-220K01	22 \pm 10%	1	35	5	0.90	16
GCFL3216N-270K01	27 \pm 10%	1	35	5	0.90	14
GCFL3216N-330K01	33 \pm 10%	1	35	5	1.06	13
GCFL3216N-390K01	39 \pm 10%	4	30	5	1.30	13.00
GCFL3216N-470K01	47 \pm 10%	4	30	5	1.60	12.00
GCFL3216N-101K01	100 \pm 10%	1	30	5	3.00	8.00