

**MLCC**



**CHIP-R**



**COIL**



# ABOUT PDC

## Milestone 歷史沿革



1990	PDC former parent company, Taiwan Cement, merged with Mei Da Mei and founded PDC in Nantou. 台泥集團購買美大美電子公司，信昌電子陶瓷正式成立。
1995	PDC merged with Taiwan Precision Material Corporation. 信昌電子陶瓷併購台灣精密材料公司。
2002	Public Listed in OTC. 信昌電子陶瓷正式上櫃。
2005	PDC was strategically allied with Wasin Tech. 與華新科技(股)公司策略聯盟。
2007	To be strategically allied with Frontier, and setting up new production lines, Magnetic components. 與弘電電子工業(股)公司策略聯盟，生產磁性材料元件。
2008	Positioned as Specialty and Material BG in PSA Group. 集團推動 PSA 被動系統聯盟企業識別，信昌電子陶瓷定位為特殊品及材料事業群。

## Core Technology 關鍵技術



1988	Manufacturing and developing ceramic dielectric materials. 生產製造圓板電容粉末、開發。
1990	Manufacturing Multilayer Ceramic Capacitors. 生產製造積層陶瓷晶片電容。
1995	Manufacturing Ceramic Chip Resistors and Ceramic Chip Coil 生產陶瓷晶片電阻、陶瓷晶片電感。
2001	As the 1 <sup>st</sup> manufacturer and provider in Taiwan for ceramic dielectric powders and multilayer ceramic chip capacitors (MLCC). 臺灣第一家自行供給晶片電容器介電瓷粉之被動元件廠商。
2001	With self-made conducting dielectric powder, controlling the complete key technology from material to manufacture. 自製半導體介電瓷粉，掌握由材料至製程的完整關鍵性技術。
2007	Manufacturing magnetic components. 生產磁性材料元件。

## Brand Value 品牌價值



2001	The first supplier in Asia to get SEMKO product safety certificate. 亞洲第一家獲得 SEMKO 安全規格認證之供應商。
2003	ISO 9001 certified. 獲 ISO 9001 驗證通過。
2004	Industrial Sustainable Excellence Award. 榮獲經濟部工業局工業精銳獎。
2004	TS16949、ISO 14000 and OHSAS 18000 certified. 獲 TS16949、ISO 14000 及 OHSAS 18000 驗證。
2007	Common Wealth Magazine Top 1000 Manufacturers in Taiwan Ranked in No. 705. 天下雜誌 1000 大製造業排名第 705 名。
2008	IECQ QC080000 HSF certified. 獲 IECQ QC080000 HSF 驗證。 Common Wealth Magazine Top 1000 Manufacturers in Taiwan Ranked in No. 682. 天下雜誌 1000 大製造業排名第 682 名。
2009	Common Wealth Magazine Top 1000 Manufacturers in Taiwan Ranked in No. 677. 天下雜誌 1000 大製造業排名第 677 名。
2012	Recognition of Winning the Silver Invention Award for Copper or Its Alloy Cofirable Dielectric Ceramics. 榮獲國家發明創作獎 - 發明獎銀牌「可與銅及其合金進行共燒製作的介電陶瓷組成物」
2013	SMD High Voltage Chip Resistor passed UL Safety certification in 2013 電阻產品取得安規認證證書
2015	MLCC product have obtained the IECQ certificate & the certificate of AS9100 management system for the aerospace industry. 通過 IECQ 第三方認證及 AS9100 航太工業管理系統驗證。
2016	Aerospace Quality Management Systems AS 9100 certificated. 晶片電容取得車規第三方認證
2019	PDC was selected fastest growing Top 100 companies in 2019 by commonwealth magazine PDC 榮獲天下雜誌 2019 年成長 100 強企業

## Market Performance 市場表現



The only local manufacturer in Taiwan with the capability in specialty products includes multiple-layer ceramic capacitors, chip resistors, and coils.  
國內唯一可全數提供特殊電容、電感、電阻之被動元件供應商。  
The only local manufacturer in Taiwan entered the supply chain of Japan market.  
國內唯一打入日本供應鏈之廠商。

## Introduction

Prosperity Dielectrics Co., Ltd. (PDC) was founded in 1990 as the 1st local manufacturer and exporter in Taiwan for ceramic dielectric powders and multiple-layer ceramic chip capacitors (MLCCs). PDC joined to Walsin Technology Corporation (WTC) as an allied company in September 2005, and incorporated Frontier to create solid synergy in 2008. Our product lines expand to SMD magnetic chips, power chokes, coils and transformers.

信昌電子陶瓷成立於 1990 年，為國內少數能自行供給瓷粉原料並同時銷售積層陶瓷電容的被動元件廠商，更是唯一有能力由上游初發原料，向下垂直整合至被動晶片元件的廠商。2005 年信昌電陶與華新集團進行策略聯盟、2008 年正式合併弘電電子，將銷售範圍從介電瓷粉、半導體陶瓷電容器瓷片、積層陶瓷電容、晶片電阻延伸到線圈，成為國內唯一可全數提供特殊電容、電感、電阻之被動元件供應商。

## Support You Forward

With niche technology of key materials, PDC can meet the market requirements. The integration of researching and developing from materials to the customer-required components can shorten the time of mass production. To progressively make plans for each product to be with high added value functions, such as Mid and high voltage, high precision, large size capacitors, and high power, high precision, low resistance resistors or other high added value products. In the future, combine with core material technology and advance high frequency and high capacitance further.

由於掌握關鍵性材料的技術利基，信昌電陶可配合市場需求，由材料研發著手，向下整合開發客戶所需要的電子元件，縮短量產時效，並積極規劃各項產品朝高附加價值的零件功能領域邁進，如：中高壓、高精度、大尺寸之晶片電容器及高功率、高精度與低阻值之晶片電阻器等高附加價值產品。未來更將結合材料核心技術，進軍高頻及高容領域。

At present, PDC has developed ceramic dielectric powder used by NME and BME manufacturing process. Self-applied mass production and external sale are simultaneously carried out to improve the proportion to the supply of internal high-level MLCC materials. By the strategy of vertical production capability from ceramic dielectric powder material to MLCC finished goods, bring the high performance of vertical integration.

目前信昌電陶貴金屬製程及卑金屬製程 (BME) 使用的晶片電容器介電瓷粉已陸續開發完成，量產自用與對外銷售並行展開，提升國內高階積層電容瓷粉原料自主供應比率。藉由原料往下游整合至晶片電容器成品的延伸策略，發揮上下垂直整合的高度營運績效。

For the past few years, to extend the production capability of magnetic components series, PDC gradually set up the manufacturing equipments for coil and transformer in Yongzhou and Shenzhen Plant. The improvement of the production capability is able to increase the sales performance.

近年來，為了擴展磁性元件系列產品的產能，信昌電陶陸續在中國永州廠、深圳廠增置電感、變壓器相關製造設備，藉由產能提升，大幅拉升業績。

## Vertical integration & Complete key technology:

- Material (Ceramic Dielectric Powder)
- Semi-finished good (Semiconducting Ceramic Chip Capacitor)
- Finished goods (Chip Capacitor, Chip resistor, Coil)

## 上下游垂直整合，掌握完整關鍵性技術：

- 原料 (介電瓷粉)
- 半成品 (半導體陶瓷電容瓷片)
- 成品 (晶片電容、晶片電阻、線圈)

## Business Operation 經營模式分析

- Vertical integration to improve competitiveness.
- Building strategic alliances to strengthen competitiveness.
- Expanding Western and Japanese markets, cultivation high-end products.
- Moving into Chinese market to expand market share.
- 垂直整合發展，擺脫同業競爭
- 運用策略聯盟，產品水平延伸
- 拓展歐美日市場，深耕高階產品
- 跨足中國市場，擴大市佔率

## Branding Strategy 品牌經營策略

- Developing specialized products market.
- Enhancing brand value with continuing innovation and R&D ability.
- Improving competitiveness through vertical integration.
- Satisfying customer's need through extending product lines.
- 深耕被動元件特殊品市場及其上游材料產業高階產品
- 持續創新研發能力，提升品牌價值
- 產品垂直整合，強化競爭優勢
- 產品水平延伸，滿足客戶一次購足

## Keystothe Success 關鍵成功因素

- The only local manufacturer with vertical production capability from ceramic dielectric powder material to multiple-layer ceramic chip capacitors.
- Differentiating marketing strategy with niche product.
- Diversifying product lines to expand customer base.
- Continuing innovation and R&D ability.
- Focusing core competence with PSA group support.
- 國內唯一有能力由上游初發原料，向下垂直整合至被動晶片元件的廠商，掌握材料與製程的完整關鍵性技術
- 利基產品差異化與行銷差異化策略
- 產品線多元發展，擴大客戶群
- 持續創新與研發，開發新產品與導入新製程
- 共享集團資源，聚焦核心競爭力

## Characteristics 企業特色

- PDC is the domestic manufacturer devoting to ceramic dielectric materials.
- 為國內廠商對介電瓷粉材料研發投資最深者

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# COIL-CONTENTS




	Product	Product Classification	Photo	Series	Main Dimensions (mm)			Inductance	Rated Current	Page
					L	W	H			
SMD Signal	Inductor	Air Wound Coil		291A	2.92	3.05	3.18	2.5nH~18.5nH	4.0A	84
				291B	5.84	3.05	3.18	17.5nH~43.0nH	4.0A	
				292AR	1.83	1.42	1.37	1.65nH~5.45nH	1.6A	
				292BR	3.66	1.42	1.37	5.6nH~12.55nH	1.6A	
				293A	4.83	3.81	4.20	22nH~120nH	3.5A~1.5A	
				294A	7.98	6.35	5.90	90nH~538nH	3.5A~2.0A	
				29B	5.59	5.84	4.95	3.7nH~17.5nH	7A	
				29CAR	3.94	4.19	2.01	5.5nH~13nH	4A	
				29CBR	6.22	3.43	2.01	16nH~27nH	4A	
				LSQ0806A	2.591	1.829	1.397	5.5nH~19.4nH	2.9A	
		LSQ0807A	2.591	1.829	1.524	6.9nH~22nH	2.7A			
		LSQ0908A	2.972	2.134	1.829	8.1nH~27.3nH	4.4A			
		LSQ1111A	3.300	2.670	2.790	27nH~47nH	5.5A~4.4A	85		
		LSQ1515A	6.094	3.738	3.908	47nH~82nH	5.6A~4.9A			
		LSQ2222A	11.940	5.590	5.690	90nH~300nH	5A~3.7A			
		LSQ2929A	14.000	7.490	7.240	330nH~500nH	4.7A~4.3A			
		0402CP	1.19	0.64	0.66	1.0nH~120nH	1360mA~50mA		86	
		FEC0603CP	1.80	1.12	1.02	1.6nH~390nH	700mA~100mA			
		FEC0805CP	2.29	1.73	1.52	2.2nH~820nH	800mA~180mA			
		FEC1008CP	2.92	2.79	2.03	10nH~4700nH	1000mA~260mA			
		1210C	3.42	2.80	2.30	4.7nH~3300nH	1000mA~50mA	87		
		1812CP	4.95	3.80	3.43	82nH~1200nH	1500mA~480mA			
		0603HQ	1.70	1.02	0.92	1.8nH~390nH	2100mA~170mA			
		0805HQ	2.40	1.65	1.45	6.2nH~51nH	1600mA~1000mA			
		1008HQ	2.92	2.79	2.03	3nH~100nH	1600mA~1000mA		88	
		0603F-DLRH	1.60	1.00	1.00	2.2uH~22uH	580mA~200mA			
		0603F-TLRH	1.65	1.15	1.05	0.047uH~10uH	1500mA~270mA			
		0805F-DLRH	2.20	1.40	1.30	1uH~22uH	1300mA~340mA			
		0805F-TLRH	2.40	1.60	1.40	0.47uH~33uH	750mA~145mA			
		1008F-TLRH	2.70	2.30	1.90	1uH~33uH	1000mA~236mA	89		
1210F-TLRH	3.60	2.80	2.60	1uH~680uH	1200mA~76mA					
Balun	Balun Transformer		BIH2012OB	2.20	1.40	1.40	-	-	89	
			BIY3520UM-001H	5.80	4.60	3.50	-	-		
			BIY3520UM-002H	5.80	4.60	3.50	-	-		
Choke	Common Mode Choke		SCM2012F	2.20	1.22	1.22	67Ω~600Ω	400mA~240mA	90	
			SCM2012FH	2.20	1.22	1.22	67Ω~120Ω	400mA~330mA		
			SCM3216F	3.20	1.60	1.90	90Ω~2200Ω	400mA~200mA		
			SCM7038F	7.50	6.50	3.80	225Ω~800Ω	5.0A~3.0A		
SMD Power	Inductor		MCS20FC-xxxMMP	2.2	1.8	1.0	0.24uH~2.2uH	4.5A~1.5A	90	
			MCS20FC-xxxMHC	2.2	1.8	1.0	0.33uH~2.2uH	4.0A~2.0A		
			MCS25GC-xxxMMP	2.7	2.2	1.0	0.22uH~4.7uH	5.3A~1.22A		
			MCS25GC-xxxMHC	2.7	2.2	1.0	0.33uH~4.7uH	4.8A~1.4A		
			MCS25GD-xxxMMP	2.7	2.2	1.2	0.47uH~4.7uH	4.18A~1.4A		
			MCS25GD-xxxMHC	2.7	2.2	1.2	0.47uH~2.2uH	4.9A~2.2A		
			MCS0412-xxxME1	4.75	4.45	1.2	0.15uH~4.7uH	7.5A~1.8A		
			MCS0420-xxxMN2	4.70	4.3	2.0	0.10uH~10uH	12A~1.2A		
			MCS0420-xxxME1	4.75	4.45	2.0	0.10uH~22uH	13A~1.2A		
			MCS0515-xxxME1	5.70	5.4	1.5	0.47uH~4.7uH	9A~3.5A		
		MCS0518-xxxME1	5.70	5.4	1.8	0.47uH~10uH	10.5A~2.5A			
		MCS0518-xxxMN1	5.70	5.5	1.8	0.47uH~1.0uH	11A~8.5A			
		MCS0530-xxxMN2	5.70	5.5	3.0	0.20uH~10uH	18A~2.5A			
		MCS0530-xxxME1	5.70	5.4	3.0	0.10uH~10uH	25A~3.2A			
		MCS0618-xxxME1	7.30	6.8	1.8	0.10uH~22uH	25A~1.8A			
		MCS0618-xxxMN1	7.40	6.9	1.8	0.10uH~4.7uH	18.0A~3.0A			
		MCS0624-xxxMN1	7.30	6.8	2.4	0.22uH~10uH	21A~2.5A			
		MCS0624-xxxME1	7.30	6.8	2.4	0.22uH~22uH	21A~2.0A			
		MCS0630-xxxMNx	7.30	6.8	3.0	0.22uH~15uH	23A~3.0A			
		MCS0630-xxxME1	7.30	6.8	3.0	0.1uH~33uH	32A~2A			
		MCS1040-xxxMNx	11.50	10.3	4.0	0.22uH~68uH	35A~3.5A			
		MCS1070-xxxMN1	11.50	7.2	5.0	0.3uH~0.33uH	36A			
		MCS1250-xxxMN1	14.00	13.1	5.0	0.10uH~47uH	55A~2A	92		
		MCS1265-xxxMN1	14.00	13.1	6.5	0.10uH~68uH	60A~2.0A			
		MCS1770-xxxMN1	18.30	17.10	7.0	0.82uH~100uH	56.5A~5.0A			

MLCC

Chip R

Coil

# COIL-CONTENTS

Product	Product Classification	Photo	Series	Main Dimensions (mm)			Inductance	Rated Current	Page		
				L	W	H					
SMD Power Inductor	Shielded Power Inductor		MCS0312-XXXMT1	3.70	3.4	1.2	0.47uH~10uH	4.5A~0.8A	92		
			MCS0320-XXXMT1	3.70	3.4	2.0	0.10uH~10uH	9.5A~1.1A			
			MCS0412-XXXxT1	4.70	4.31	1.2	0.10uH~22uH	10A~0.6A			
			MCS0418-XXXxT1	4.70	4.31	1.8	0.56uH~10uH	5.0A~1.4A			
			MCS0420-XXXxT1	4.70	4.31	2.0	0.10uH~22uH	10A~1.0A			
			MCS0512-XXXxT1	6.00	5.40	1.2	0.10uH~15uH	13A~1.2A			
			MCS0515-XXXxT1	6.00	5.40	1.5	0.15uH~22uH	14A~1.0A			
			MCS0518-XXXMT1	6.00	5.40	1.8	0.22uH~10uH	11A~1.9A			
			MCS0520-XXXxT1	6.00	5.40	2.0	0.10uH~22uH	16A~1.2A			
			MCS0530-XXXxT1	6.00	5.40	3.0	0.10uH~33uH	20A~1.5A			
			MCS0612-XXXxT1	7.30	6.90	1.2	0.15uH~22uH	13A~1.0			
			MCS0615-XXXxT1	7.30	6.90	1.5	0.10uH~22uH	15A~1.2A			
			MCS0618-XXXMT1	7.30	6.90	1.8	0.10uH~10uH	16A~2.0A			
			MCS0620-XXXxT1	7.30	6.90	2.0	0.10uH~22uH	18A~1.2A			
			MCS0624-XXXxT1	7.60	6.90	2.4	0.10uH~22uH	26A~1.4A			
			MCS0630-XXXxT1	7.60	6.90	3.0	0.10uH~47uH	28A~2.0A			
			MCS0640-XXXxT1	7.60	6.90	4.0	0.12uH~33uH	30A~1.8A			
			MCS0650-XXXMT1	7.60	6.90	5.0	0.33uH~68uH	22A~1.1A			
			MCS1040-XXXxT1	11.50	10.30	4.0	0.15uH~82uH	40A~1.2A			
			MCS1050-XXXxT1	11.50	10.30	5.0	0.22uH~100uH	40A~1.7A			
			Multilayer Power Inductor		FH160810	1.60	0.80	0.95	0.33uH~2.2uH	0.35A~0.65A	94
					FH201610	2.00	1.60	1.00	0.47uH~4.7uH	1.6A~0.9A	
					FH201210	2.00	1.25	1.00	0.47uH~4.7uH	1.2A~0.7A	
					FH252010	2.50	2.00	1.00	0.47uH~4.7uH	1.8A~1.1A	
			Ferrite Resin Shielded Power Inductor		CSM0310D	3.10	3.10	1.00	1.0uH~47uH	1.525A~0.27A	95
					CSM0315D	3.10	3.10	1.50	1.0uH ~ 100uH	2.10A~0.25A	
					CSM0645D	6.20	6.10	4.50	1.0uH~100uH	6.0A~0.8A	
					CSM0840D	8.20	8.20	4.20	0.9uH~100uH	8.0A~1.10A	
					CSMV2012D	2.10	2.10	1.20	1.0uH~4.7uH	1.65A~0.75A	
					CSMS2012D	2.10	2.10	1.20	1.0uH~4.7uH	1.7A~0.91A	
					CSMH2410D	2.50	2.50	1.00	0.68uH~22uH	1.57A~0.3A	
					CSMH2412D	2.50	2.50	1.20	0.47uH~10uH	2.1A~0.45A	
					CSMH0310D	3.10	3.10	1.00	1.2uH~22uH	1.48A~0.41A	
					CSMH0312D	3.10	3.10	1.20	1.0uH~22uH	1.71A~0.5A	
				CSMS0315D	3.10	3.10	1.50	1.0uH~22uH	2.1A~0.47A		
	CSMS0410D	4.20		4.20	1.00	1.0uH~22uH	1.9A~0.5A				
	CSMS0412D	4.20		4.20	1.20	1.0uH~22uH	2.2A~0.62A				
	CSMS0418D	4.20		4.20	1.80	1.0uH~100uH	3.2A~0.28A				
	CSMS0510D	5.10		5.10	1.00	1.0uH~22uH	1.75A~0.45A				
	CSMS0512D	5.10		5.10	1.20	1.0uH~15uH	2.3A~0.64A				
	CSMS0514D	5.10		5.10	1.40	0.47uH~22uH	3.3A~0.55A				
	CSMS0520D	5.10		5.10	2.00	1.0uH~22uH	3.6A~1.0A				
	CSMS0540D	5.10		5.10	4.00	1.5uH~47uH	4.5A~0.9A				
	CSMS0610D	6.20		6.20	1.00	1.5uH~22uH	1.9A~0.7A				
	CSMS0612D	6.20		6.20	1.20	2.5uH~100uH	1.8A~0.32A				
CSMS0620D	6.20	6.20		2.00	0.8uH~22uH	4.1A~0.95A					
CSMS0628D	6.20	6.20		2.80	0.9uH~100uH	4.6A~0.66A					
CSMS0645D	6.20	6.20		4.50	1.0uH~100uH	4.5A~0.75A					
CSMS0840D	8.20	8.20		4.20	0.9uH~22uH	7.8A~2.2A					
CSCA2016D	2.10	1.70		1.00	0.24uH~4.7uH	3.0A~0.95A					
CSCA2510D	2.50	2.00		1.00	0.47uH~4.7uH	3.2A~1.1A					
CSCA2520D	2.70	2.20		1.20	0.47uH~4.7uH	3.4A~1.3A					
CSME0315D	3.00	3.00		1.50	1uH~22uH	2.1A~0.47A					
CSME0412D	4.00	4.00		1.20	10	1.1					
CSME0418D	4.00	4.00		1.85	1uH~100uH	3.2A~0.28A					
CSME0430D	4.00	4.00		3.00	0.47uH~180uH	3.5A~0.35A					
CSME0520D	5.00	5.00		2.20	1uH~68uH	3.6A~0.53A					
CSME0540D	5.00	5.00		4.00	1uH~100uH	4.9A~0.7A					
CSMW0315D	3.00	3.00		1.50	1uH~47uH	2.35A~0.35A					
CSMW0418D	4.00	4.00	1.85	1uH~220uH	2A~0.17A						
CSMW0430D	4.00	4.00	3.00	1uH~470uH	4.15A~0.2A						
CSMW0520D	5.20	5.20	2.00	1uH~33uH	3.8A~0.8A						
CSMW0540D	5.00	5.00	4.00	1.5uH~47uH	4.3A~1A						
CSMW0840D	8.00	8.00	4.20	1.5uH	7.8						

TAPE AND REEL SPECIFICATIONS

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Coil Rectifiers

MLCC

Chip R

Coil

## ■ SMD Air Wound Coil

### ELECTRICAL SPECIFICATION

Size	291A		291B		292AR		292BR		293A		294A		29B		29CAR		29CBR		
	Inductance (nH)	Q	DCR (mΩ)	Q	DCR (mΩ)	Q	DCR (mΩ)	Q	DCR (mΩ)	Q	DCR (mΩ)	Q	DCR (mΩ)	Q	DCR (mΩ)	Q	DCR (mΩ)	Q	DCR (mΩ)
1.65					100	4													
2.5	145	1.1																	
2.55					100	5													
3.7													100	2					
3.85					100	6													
5	140	1.8																	
5.45					100	8													
5.5																115	2.6		
5.6							100	9											
6.6													100	2					
7.15							100	10											
8	140	2.6																	
8.8							100	12											
9																120	3.4		
9.85							100	13											
12													140	2					
12.5	137	3.4																	
12.55							100	14											
13																100	3.9		
16																		110	5.2
17.5			112	4.5									140	2					
18																		110	6
18.5	132	3.9																	
22			112	5.2					100	4.2									
23																		110	6.8
27									100	4								110	7.9
28			112	6															
33									100	4.8									
35.5			112	6.8															
39									100	4.4									
43			112	7.9															
47									100	5.6									
56									100	6.2									
68									100	8.2									
82									100	9.4									
90											95	15							
100									100	12.3									
111											87	15							
120									100	17.3									
130											87	20							
169											95	25							
206											95	30							
222											92	35							
246											95	35							
307											95	35							
380											95	50							
422											95	60							
491											95	65							
538											87	90							

MLCC

Chip R

Coil

## ■ SMD Square Air Wound Coil

### ELECTRICAL SPECIFICATION

Size	LSQ0806A		LSQ0807A		LSQ0908A		LSQ1111A		LSQ1515A		LSQ2222A		LSQ2929A		
	Inductance (nH)	Q	DCR(mΩ)	Q	DCR(mΩ)	Q	DCR(mΩ)	Q	DCR(mΩ)	Q	DCR(mΩ)	Q	DCR(mΩ)	Q	DCR(mΩ)
5.5	60	3.4													
6	64	6													
6.9			100	6											
8.1					130	6									
8.9	90	7													
10.2			100	7											
11.2			90	6.3											
12.1					130	7									
12.3	90	8													
13.7			100	8											
14.7					90	7.2									
15.7	90	9													
16.6					130	8									
17			100	9											
19.4	90	10													
21.5					130	9									
22			100	10											
23					130	10									
25					130	10									
27							200	8.1							
27.3					130	10									
30							200	8.3							
33					100	12	200	9.5							
36							200	9.8							
39							200	10							
43							200	10.8							
47							200	11.3		230	6.35				
68										230	8.6				
82										230	9.4				
90												140	5.5		
110												140	6.5		
130												140	7.5		
160												140	8.25		
180												140	9.5		
220												140	11		
270												140	12.5		
300												150	13.8		
330														180	12.5
360														180	13.5
390														180	14.5
430														180	15.5
500														180	16.5

MLCC

Chip R

Coil

# FECxxxxCP

## ■ SMD Wire Wound Ceramic Chip Inductors

### ELECTRICAL SPECIFICATION

Size	0402CP		FEC0603CP		FEC0805CP	
	Inductance (nH)	Q	Q	I <sub>rms</sub> (mA)	Q	I <sub>rms</sub> (mA)
1	16	1360				
1.2	16	740				
1.6			24	700		
1.8	16	1040	16	700		
1.9	16	1040				
2	16	1040				
2.1			20	700		
2.2	19	960	20	700	35	600
2.4	15	790				
2.7	16	640			80	600
2.8					80	800
2.9					50	600
3					65	800
3.3	19	840	20	700	35	600
3.6	19	840	22	700		
3.9	19	840	22	700		
4.1	18	700				
4.3	18	700	22	700		
4.7	15	640	20	700		
5.1	20	800	20	700		
5.6	20	760	15	700	65	600
6.1			25	700		
6.2	20	760				
6.8	20	680	27	700	50	600
7.3	20	680				
7.5	22	680	28	700	50	600
8.2	22	680	25	700	50	600
8.4			28	700		
8.5			28	700		
8.7	18	480	28	700	50	400
9	22	680				
9.1	22	680				
9.5	18	480	28	700		
10	21	480	31	700	60	600
11	24	640	33	700		
12	24	640	35	700	50	600
13	24	440				
14			35	700		
15	24	560	35	700	50	600
16	24	560	34	700		
18	25	420	35	700	50	600
19	24	480				
20	25	420	40	700		
22	25	400	38	700	55	500
23	22	400				
24	25	400	37	700	50	500
27	24	400	40	600	55	500
30	25	400	37	600		
33	24	400	40	600	60	500
36	24	320	38	600	55	500
39	25	200	40	600	60	500
40	24	320				
43	25	100	39	600	60	500
47	20	150	38	600	60	500
51	25	100				
56	22	100	38	600	60	500
57	22	100				
62	22	100	37	600		
68	22	100	37	600	60	500
72			34	400		
75	20	50				
82	20	50	34	400	65	400
91	22	50	30	400	65	400
100	20	30	34	400	65	400

Size	0402CP		FEC0603CP		FEC0805CP	
	Inductance (nH)	Q	Q	I <sub>rms</sub> (mA)	Q	I <sub>rms</sub> (mA)
110			32	300	50	400
120	20	50	32	300	50	400
130			30	300		
150			28	280	50	400
160					50	400
180			25	240	50	400
200			25	200	50	400
220			25	200	50	400
240					44	350
250					50	350
260			25	200		
270			24	170	48	350
300					48	300
330			24	185	48	300
360					35	300
390			25	100	48	300
430			25	100	33	190
470			25	80	33	250
560					23	230
620					23	190
680			25	60	23	190
820					23	190
910					24	170
1000					23	170

MLCC

Chip R

Coil



# FECxxxxCP

## ■ SMD Wire Wound Ceramic Chip Inductors

### ELECTRICAL SPECIFICATION

Size Inductance (nH)	FEC1008CP		1210C		1812CP		0603HQ		0805HQ		1008HQ	
	Q	I <sub>rms</sub> (mA)	Q	I <sub>rms</sub> (mA)	Q	I <sub>rms</sub> (mA)	Q	I <sub>rms</sub> (mA)	Q	I <sub>rms</sub> (mA)	Q	I <sub>rms</sub> (mA)
1.8							23	2100				
2.2							13	900				
3											70	1600
3.3							32	1900				
3.6							40	1900				
3.9							35	1600				
4.1											75	1600
4.3							30	1300				
4.7			50	600								
5.6			50	600			48	1700				
6							49	1700				
6.2									88	1600		
6.8							42	1400				
7.2							48	1400				
7.5							41	1300				
7.8											75	1600
8.2	50	1000					46	1400				
8.7							46	1400				
9.1							40	1400				
9.5							49	1400				
10	50	1000	60	600			49	1400			60	1600
11							41	1400				
12	50	1000	60	600			37	1100	80	1600	70	1500
15	50	1000	60	600			48	1200				
16							45	1100	72	1500		
18	50	1000	60	600			41	1200	75	1400	62	1400
20									70	1400		
22	55	1000	60	600			44	850			62	1400
23							40	850				
24	50	1000					42	1100				
27	55	1000	60	600			44	780	75	1300		
30							49	920	65	1200		
33	60	1000	60	600			45	680			75	1300
36	60	1000					44	720			65	1300
39	60	1000	60	600			48	680	65	1100	75	1300
43							45	810				
47	65	1000	60	600			47	680			75	1200
48									65	1200		
51							49	660	65	1000		
56	65	1000	60	600			50	610			75	1200
68	65	1000	60	600			46	600			80	1100
72							46	550				
75							46	500				
82	60	1000	60	600	70	1500	45	510			80	1100
91			60	1000			45	440				
100	60	650	60	1000	70	1150	49	470			62	1000
110							47	440				
120	60	650	60	500	70	1150	47	420				
150	45	580	60	500	75	1150						
180	45	620	60	500	80	1150	48	310				
200	50	500					47	280				
210							48	280				
220	45	500	60	500	80	940	47	280				
240	50	500										
250							45	240				
270	45	500	50	500	85	940	46	260				
300	45	660					47	220				
330	45	450	50	500	80	850	46	180				
360	45	660	50	600			47	170				
390	45	470	50	500	80	850	47	170				
430	45	600										
470	45	470	50	400								
560	45	400	50	400								
620	45	300										
680	45	400	50	400								
750	45	360										
820	45	400	50	350								
910	35	380	50	350								
1000	35	370	45	280								
1200	35	310	45	250	62	480						
1500	28	330	45	220								
1800	28	300	45	180								
2000	25	280										
2200	28	280	45	150								
2700	22	290										
3300	22	290	25	150								
3900	20	260										
4700	20	260										
5600	16	240										
8200	15	170										
10000	15	150										
12000	15	130										
15000	15	120										

MLCC

Chip R

Coil

# 0603F / 0805F

## ■ SMD Wire Wound Ferrite Chip Inductors

### ELECTRICAL SPECIFICATION

Size	0603F-DLRH		0603F-TLRH	
	Inductance (nH)	Q	Q	I <sub>rms</sub> (mA)
0.047			17	1500
0.072			17	1500
0.1			17	1500
0.15			17	1450
0.18			17	1400
0.33			17	900
0.39			17	1100
0.47			17	1050
0.56			17	850
0.68			17	850
0.82			17	750
0.91			17	670
1			17	600
1.2			17	550
1.5			17	540
1.8			17	520
2.2	16	580	17	500
2.7			17	480
3.3			17	440
3.9			17	430
4.7	16	420	18	420
5.6			18	350
6.8	16	340	19	330
7.8			17	320
8.2			17	300
10	14	280	19	270
15	14	240		
22	14	200		

Size	0805F-DLRH		0805F-TLRH	
	Inductance (nH)	Q	Q	I <sub>rms</sub> (mA)
0.47			10	750
0.56			10	730
0.68			10	670
0.82			10	650
1	14	1300	10	615
1.2			10	550
1.5			10	520
1.8			10	500
2.2	13	1040	10	420
2.7			10	410
3.3			10	385
3.9			10	372
4.7	14	840	10	345
5.6			10	335
6.8			10	315
8.2			10	295
10	14	560	10	260
12			10	250
15	15	380	10	215
18			10	195
22	15	340	10	180
27			10	170
33			10	145

MLCC

Chip R

Coil

# 1008F / 1210F

## ■ SMD Wire Wound Ferrite Chip Inductors

### ELECTRICAL SPECIFICATION

Size	1008F		1210F	
	Inductance (nH)	Q	Q	I <sub>rms</sub> (mA)
1		12	10	1200
1.5		12	10	1000
2.2		12	10	880
2.7			10	830
3.3		12	10	775
4.7		12	10	710
6.8		12	10	660
8.2		12		
10		12	10	570
15		12	10	440
22		12	10	400
33		12	10	285
39			10	270
47			10	260
68			10	235
100			10	190
150			10	140
220			10	115
330			10	98
470			10	86
680			10	76

# BIH2012OB

## ■ SMD Balun Transformer

### ELECTRICAL SPECIFICATION

BIH2012OB			
Part Number	Impedance (Ω)	Frequency Range	Insertion Loss(dB)
BIH2012OB-001H	50/50	40MHz to 0.86GHz	2.5
BIH2012OB-002H	75/75	50MHz to 1.2GHz	1.2
BIH2012OB-003H	75/75	1.0GHz to 1.5GHz	1.4
BIH2012OB-004H	75/75	50MHz to 1.2GHz	1.2
BIH2012OB-005H	50/50	400MHz to 1.8GHz	2.2
BIH2012OB-006H	75/75	400MHz to 1.8GHz	2
BIH2012OB-007H	75/75	50MHz to 1.2GHz	1.2

# BIY3520UM

## ■ SMD Balun Transformer

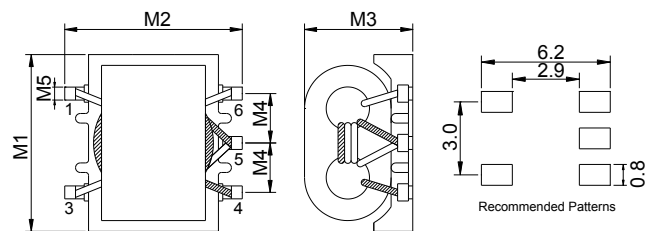
### ELECTRICAL SPECIFICATION

Size	BIY3520UM-001H
INSERTION LOSS (Pin 1 – Pin 6)	0.7dB MAX. 5~85MHz
INSERTION LOSS (Pin 1 – Pin 4)	0.7dB MAX. 5~85MHz
AMPLITUDE BALANCE	±0.3dB MAX. 5~85MHz
PHASE BALANCE	±3.0° MAX. 5~85MHz
INPUT RETURN LOSS (Pin 1)	15.0dB MIN. 5~85MHz

### DIMENSIONS (Unit: mm)

M1	M2	M3	M4	M5
4.3±0.3	5.5±0.3	3.2±0.3	1.5±0.2	0.5±0.2

### BIY3520UM-001H



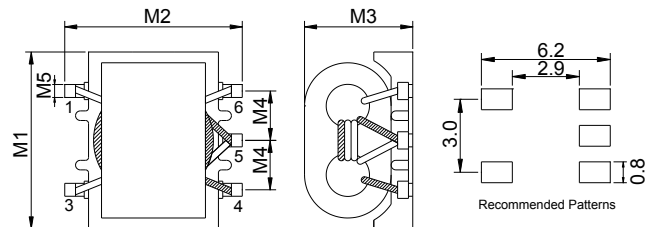
### ELECTRICAL SPECIFICATION

Size	BIY3520UM-002H
INSERTION LOSS	1.0dB MAX. 5~200MHz
AMPLITUDE BALANCE (Nominal 0dB)	±0.4dB MAX. 5~200MHz
PHASE BALANCE (Nominal 180°)	±4.0° MAX. 5~200MHz
INPUT RETURN LOSS	14.0dB MIN. 5~200MHz

### DIMENSIONS (Unit: mm)

M1	M2	M3	M4	M5
4.3±0.3	5.5±0.3	3.2±0.3	1.5±0.2	0.5±0.2

### BIY3520UM-002H



MLCC

Chip R

Coil

# SCM

## ■ SMD Common Mode Choke

### ELECTRICAL SPECIFICATION

Size	SCM2012F		SCM2012FH		SCM2012FH		SCM7038F		
	Inductance (Ω)	DCR (Ω)	I <sub>rm</sub> (mA)	DCR (Ω)	I <sub>rms</sub> (mA)	DCR (Ω)	I <sub>rms</sub> (mA)	DCR (Ω)	I <sub>rms</sub> (mA)
67		0.25	400	0.25	400				
75		0.3	400						
90		0.35	330	0.3	370	0.3	400		
100		0.35	330						
120		0.3	370	0.35	330				
160		0.35	350			0.4	340		
180		0.35	330						
200		0.4	300						
220		0.4	300						
260		0.4	300			0.5	310		
300								0.01	5000
360		0.5	300						
370		0.45	280						
430		0.55	280						
500								0.013	4000
600		0.6	240			0.8	260		
700								0.015	4000
750		0.9	220						
1000						1	230		
1020								0.017	3000
2200						1.2	200		

MLCC

Chip R

# MCS (MOLDING)

## ■ High Current Molding Power Chokes

### ELECTRICAL SPECIFICATION

Size	MCS20FC-xxxMMP						MCS25GC-xxxMMP						MCS25GD-xxxMMP						
	I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		
	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	
0.22																			
0.24																			
0.33	5.60	5.05	5.00	4.50	17	21	7.90	7.20	5.90	5.30	9	12.5							
0.47	4.40	4.00	3.50	3.15	33	40	5.00	4.50	3.90	3.51	27	32	5.30	4.95	4.60	4.18	21	25	
0.68	3.70	3.33	3.40	3.06	41	49	4.30	3.87	3.40	3.06	37	44	5.00	4.63	3.70	3.36	29	35	
1.00	2.90	2.61	2.60	2.26	60	69	3.50	3.15	3.00	2.70	45	54	4.40	4.04	3.50	3.18	41	49	
1.50	2.50	2.25	2.00	1.81	114	129	2.60	2.34	2.50	2.25	76	91	3.20	2.91	2.50	2.27	64	77	
2.20	1.90	1.71	1.70	1.50	135	150	2.40	2.16	2.30	2.07	99	119	3.00	2.73	2.27	2.06	85	98	
3.30													2.10	1.80	2.00	1.80	125	150	
4.70							1.80	1.62	1.36	1.22	220	262	1.90	1.58	1.61	1.40	196	235	

Size	MCS20FC-xxxMHC						MCS25GC-xxxMHC						MCS25GD-xxxMHC						
	I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		
	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	
0.22																			
0.24																			
0.33	6.70	6.10	4.70	4.00	21	26	7.80	7.00	5.60	4.80	17	22							
0.47	6.10	5.30	4.50	4.05	23	30	6.60	6.00	5.20	4.40	23	29	6.80	6.20	5.80	4.90	16	22	
1.00	3.90	3.30	3.20	3.00	48	60	4.40	4.00	3.40	3.10	41	52	4.80	4.30	3.90	3.30	36	44	
1.50	3.40	3.10	2.40	2.20	86	99													
2.20	2.60	2.45	2.20	2.00	117	140	3.30	3.00	2.40	2.10	88	110	3.50	3.20	2.50	2.20	74	89	
4.70							2.20	1.90	1.60	1.40	200	240							

## High Current Molding Power Chokes

### ELECTRICAL SPECIFICATION

Size	MCS0412-xxxME1				MCS0420-xxxMN2				MCS0420-xxxME1				MCS0515-xxxME1				MCS0518-xxxME1			
	I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)	
	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.
0.10					22.0	12.0	3.5	4.0	22.0	13.0	3.5	4.0								
0.15	15.0	7.5	8.0	9.0	13.0	9.0	6.0	6.6												
0.22	11.0	7.0	9.5	11.0	12.5	9.0	6.0	6.6	12.5	9.5	6.0	6.6								
0.33	8.4	6.5	17.0	19.0					12.0	10.0	9.0	11.0								
0.47	6.8	6.0	19.0	21.0	9.5	7.0	12.5	14.0	9.5	7.5	12.5	14.0	13.0	9.0	11.0	13.0	15.5	10.5	7.7	9.0
0.56					10.0	6.5	14.0	16.0	10.0	7.0	14.0	16.0					15.0	9.5	8.0	10.0
0.68	6.0	4.7	32.0	36.0	9.0	6.0	16.0	18.0	9.0	7.0	16.0	18.0								
1.0	5.5	4.5	43.0	47.0	7.0	4.5	24.0	27.0	7.0	6.0	24.0	27.0	9.5	7.0	19.0	23.0	9.0	8.0	15.0	17.0
1.2					7.0	4.5	24.0	27.0	7.0	6.0	24.0	27.0								
1.5	4.0	3.25	68.0	75.0	6.0	4.0	38.0	46.0	6.0	5.0	38.0	46.0					9.0	7.5	21.0	26.0
2.2	3.5	2.75	79.4	83.5	5.0	3.0	52.0	58.0	5.0	4.5	52.0	58.0	6.0	4.5	57.0	64.0	6.5	5.0	30.0	35.0
3.3					4.0	2.5	74.0	87.0	4.0	3.3	74.0	87.0					5.0	4.5	52.0	58.0
4.7	2.8	1.8	175.0	195.0	3.5	2.2	98.0	110.0	3.0	2.8	92.0	105.0	4.5	3.5	93.0	103.0	4.0	3.5	78.0	85.0
5.6					3.5	1.8	105.0	115.0												
6.8					2.5	1.5	160.0	175.0	2.5	2.4	160.0	175.0					3.4	2.8	107.0	120.0
10					2.2	1.2	256.0	282.0	2.2	1.6	256.0	282.0					3.0	2.5	140.0	155.0
22									1.65	1.2	330.0	363.0								

Size	MCS0518-xxxMN1				MCS0530-xxxMN2				MCS0530-xxxME1				MCS0618-xxxME1				MCS0618-xxxMN1			
	I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)	
	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.
0.10									33.0	25.0	2.4	3.0	38.0	25.0	2.0	2.3	40.0	18.0	3.0	3.5
0.20					14.5	18.0	3.5	3.9	14.5	14.0	3.5	3.9								
0.22													24.0	22.0	3.0	3.5	26.0	14.0	5.3	5.7
0.33									18.0	14.0	4.5	5.5								
0.47	16.0	11.0	7.6	8.5	12.0	13.5	7.4	8.5	12.0	11.0	7.4	8.5	18.0	11.5	8.0	8.4	18.0	11.0	8.4	9.3
0.56	15.5	10.0	8.0	10.0																
0.68					14.0	8.5	11.0	12.0	11.5	9.0	11.0	12.0	17.0	9.5	10.0	12.0	17.0	9.0	12.7	13.9
0.82																	17.0	8.0	13.8	15.9
1.0	10.0	8.5	15.0	18.0	11.0	7.0	13.0	14.0	11.0	8.5	13.0	14.0	14.0	8.5	13.0	16.0	14.0	7.0	17.5	18.3
1.2					11.0	6.5	15.0	16.0	11.0	8.5	15.0	16.0								
1.5					8.5	6.0	20.0	25.0	8.5	8.2	20.0	25.0	9.2	8.0	20.0	26.0				
2.2					7.5	5.5	25.0	29.0	7.5	7.0	25.0	29.0	8.0	7.0	28.0	35.0	11.0	3.75	40.3	46.0
3.3					6.0	5.0	32.0	38.0	6.0	5.5	32.0	38.0	6.5	4.5	43.0	50.0				
4.7					5.0	3.5	50.0	60.0	5.0	4.5	50.0	60.0	5.0	4.0	56.0	62.0	8.0	3.0	76.6	78.0
6.8					4.0	3.0	75.0	90.0	4.0	3.5	75.0	90.0	4.5	3.0	101.0	110.0				
10					3.5	2.5	110.0	125.0	3.5	3.2	110.0	125.0	2.5	2.3	140.0	155.0				
22													2.3	1.8	310.0	350.0				

Size	MCS0624-xxxMN1				MCS0624-xxxME1				MCS0630-xxxMNx				MCS0630-xxxME1								
	I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		
	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	
0.10																56.0	32.0	0.9	1.2		
0.22	34.0	21.0	2.9	3.2	34.0	21.0	2.5	3.0	40.0	23.0	2.5	2.8	34.0	24.0	2.5	3.0	24.0	2.5	3.0		
0.24																26.0	23.0	2.6	3.1		
0.33	22.0	18.0	3.7	4.1	24.5	18.0	3.5	4.1	30.0	20.0	3.5	3.9	25.0	21.0	3.0	3.5	21.0	3.0	3.5		
0.47	21.0	13.5	6.0	6.5	22.0	15.0	4.5	5.1	26.0	17.5	4.0	4.2	20.0	18.0	3.5	4.1	18.0	3.5	4.1		
0.56						17.0	13.0	5.5	6.5	25.5	16.5	4.7	5.0	18.0	16.5	3.9	4.5	16.5	3.9	4.5	
0.68	18.0	11.0	9.4	8.7	16.0	12.0	6.2	7.0	25.0	15.5	5.0	5.5	17.0	16.0	4.8	5.3	16.0	4.8	5.3		
0.82	17.0	10.0	10.6	11.8						20.0	13.0	6.7	8.0	16.0	14.0	5.4	6.0	14.0	5.4	6.0	
1.0	16.0	9.0	11.0	12.1	16.0	9.0	11.0	13.5	22.0	11.0	9.0	10.0	15.0	12.0	6.7	7.4	12.0	6.7	7.4		
1.5						13.5	9.0	17.0	20.0	16.0	9.0	14.0	15.0	14.0	12.0	10.6	12.1	10.6	12.1		
2.2	14.0	6.5	28.0	34.0	11.0	7.0	23.0	28.0	12.0	8.0	17.0	20.0	10.0	9.5	13.5	15.0	10.0	9.5	13.5	15.0	
3.3	13.0	5.0	36.5	51.6	8.5	5.5	31.0	39.0	10.0	6.0	28.0	30.0	9.5	8.5	18.0	22.0	9.5	8.5	18.0	22.0	
4.7	9.0	4.5	45.0	63.0	7.5	5.0	45.0	54.0	7.0	5.5	37.0	40.0	6.5	6.0	28.0	33.0	6.5	6.0	28.0	33.0	
5.6	8.0	4.0	66.0	73.0					6.0	5.5	40.0	44.0	6.0	5.0	37.0	42.0	6.0	5.0	37.0	42.0	
6.8	7.0	3.6	72.5	95.0	6.0	4.0	57.0	70.0	6.5	4.5	54.0	60.0	6.0	5.0	42.5	48.0	6.0	5.0	42.5	48.0	
8.2									6.0	4.5	54.0	60.0	6.0	5.0	54.0	60.0	6.0	5.0	54.0	60.0	
10	6.0	2.5	115.6	129.0	4.5	3.5	92.0	101.0	5.5	4.0	62.0	68.0	5.5	4.5	62.0	67.0	5.5	4.5	62.0	67.0	
15					3.3	2.5	145.0	160.0	3.5	3.0	110.0	125.0	4.5	3.0	104.0	115.0	4.5	3.0	104.0	115.0	
22					2.5	2.0	220.0	230.0					3.0	2.3	180.0	200.0	3.0	2.3	180.0	200.0	
33													2.5	2.0	280.0	310.0					

MLCC

Chip R

Coil

# MCS (MOLDING)

## High Current Molding Power Chokes

### ELECTRICAL SPECIFICATION

Size	MCS1040-xxxMNx				MCS1070-xxxMN1				MCS1250-xxxMN1				MCS1265-xxxMN1				MCS1770-xxxMN1							
	I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)			
	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.
0.10									80.0	55.0	0.53	0.60	80.0	60.0	0.47	0.50								
0.15									80.0	55.0	0.53	0.60	80.0	55.0	0.53	0.60								
0.22	50.0	35.0	0.8	1.0					80.0	51.0	0.64	0.80	80.0	53.0	0.63	0.70								
0.30					55.0	36.0	0.78	0.86					72.0	48.0	0.70	0.80								
0.33					40.0	36.0	0.82	0.9	80.0	42.0	0.85	1.10	65.0	46.0	0.83	0.90								
0.36	40.0	34.0	1.1	1.2																				
0.47	35.0	25.0	1.3	1.55					65.0	38.0	1.10	1.30	63.0	41.0	1.00	1.20								
0.56	32.0	25.0	1.6	1.8					55.0	36.0	1.30	1.60	62.0	37.0	1.20	1.40								
0.68	30.0	22.0	2.4	2.7					54.0	34.0	1.50	1.70	60.0	35.0	1.40	1.60								
0.82									53.0	31.0	2.00	2.30	50.0	33.0	1.60	1.90	45.0	56.5	0.98	1.08				
1.0	28.0	18.0	3.0	3.3					50.0	29.0	2.10	2.50	49.0	32.0	1.70	2.00	32.0	55.5	1.21	1.27				
1.2									49.0	25.0	2.80	3.50	48.0	30.0	2.10	2.50								
1.5	21.0	16.0	3.8	4.2					38.0	23.0	3.40	4.10	45.0	27.0	2.50	3.00	31.0	48.0	1.54	1.62				
1.8									35.0	19.0	4.20	4.90	41.0	24.0	2.80	3.20								
2.2	18.0	12.0	6.7	7.0					32.0	20.0	4.60	5.50	40.0	22.0	3.50	4.20	28.0	43.5	1.85	1.98				
3.3	16.0	10.0	10.8	11.8					32.0	15.0	7.70	9.20	35.0	18.0	5.70	6.80	27.0	35.0	2.79	2.93				
4.7	15.0	8.5	17.0	20.0					27.0	12.0	12.80	15.00	30.0	13.5	9.30	11.20	21.0	30.0	3.98	4.18				
5.6									22.0	11.5	14.00	16.50	26.5	12.0	11.80	12.80	21.0	28.0	4.23	4.44				
6.8	9.0	6.5	22.5	25.0					21.0	11.0	15.40	18.50	16.5	11.5	13.10	14.00	18.5	22.5	5.86	6.15				
7.8									18.0	10.0	17.20	20.50												
8.2	9.0	7.0	26.0	29.0					18.0	9.5	18.90	22.50	16.0	10.5	14.50	15.50	18.0	21.0	7.71	8.10				
10	8.5	7.5	27.0	30.0					16.0	9.0	21.40	25.50	15.5	10.0	15.80	16.80	17.0	19.0	8.89	9.33				
15	7.0	6.25	40.0	45.0					9.0	6.0	44.00	48.00	9.0	6.0	25.00	29.00	12.0	14.0	13.70	14.40				
22	5.5	5.0	60.0	66.0					8.0	5.5	50.00	58.00	7.5	5.0	34.00	39.50	9.5	12.0	20.00	21.00				
33	5.0	4.4	85.0	92.0					6.0	3.5	75.00	84.00	6.0	4.0	55.00	65.00	9.0	10.7	35.10	37.00				
47	3.5	3.3	130.0	145.0					4.0	2.0	138.00	152.00	5.0	3.0	80.00	92.00	8.6	8.7	40.70	42.70				
56																	4.2	7.2	55.00	57.80				
68	2.6	3.5	190.0	200.0									3.5	2.0	122.00	134.00	4.5	6.1	72.10	75.70				
82																	4.5	5.5	87.30	91.70				
100																	4.0	5.0	105.00	110.00				

MLCC

Chip R

Coil

Size	MCS0312-XXXMT1				MCS0320-XXXMT1				MCS0412-XXXxT1				MCS0418-XXXxT1				MCS0420-XXXxT1								
	I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)				
	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	
0.10					14.0	10.5	6.6	9	25.0	11.5	4.3	5.5					35.0	14.0	3.2	4.0					
0.15									21.5	10.0	5.5	6.8													
0.18																	28.0	13.5	4.6	5.4					
0.22					11.2	9.0	11.0	14.0	20.0	8.5	6.6	8.0					24.0	13.0	6.6	7.3					
0.33					10.0	8.0	17.0	21.0	11.0	7.0	13.6	16.0					18.0	10.0	7.8	8.6					
0.36									8.5	6.5	15.5	18.0													
0.47	7.2	5.0	25	30	9.0	7.0	19.7	23	6.5	6.0	18.0	20.0					12.0	8.0	11.2	14.0					
0.56	6.6	4.5	31	36												9.0	6.0	16	20	10.0	7.3	13.5	16.0		
0.60									6.0	5.3	22.5	26.0													
0.68	6.1	4.0	34	40	7.0	5.5	25.5	29	6.0	5.0	32.0	37.0	8.5	5.8	18.5	22	10.0	7.0	16.0	19.0					
0.82	5.8	3.5	41	48																					
1.0	5.5	3.3	50	60	5.0	4.0	32	38	6.0	4.0	41.0	47.0	6.9	4.8	24.5	30	8.5	5.0	22.0	27.0					
1.2									5.0	3.5	48.0	56.0					7.8	4.8	25.0	30.0					
1.5	4.0	3.0	71	85	4.0	3.8	42	50	4.0	3.0	55.0	63.3					7.0	4.5	34.8	42.0					
2.2	3.4	2.7	98	115	3.7	3.5	65	75	3.5	2.8	69.2	80.0	4.2	3.5	39	45	6.0	4.0	51.0	61.0					
3.3	3.1	2.0	191	210	3.5	3.0	125	145	3.0	2.3	84.0	97.0	3.6	3.0	82	100	4.0	3.5	69.0	76.0					
4.7	2.8	1.6	266	293	3.0	2.6	172	200	2.5	2.0	128.0	145.0	3.0	2.3	106	130	3.5	2.6	95.0	105.0					
5.6	2.2	1.5	310	360	2.6	2.2	205	238	2.3	1.7	180.0	208.0					3.0	2.2	112.0	125.0					
6.8	2.0	1.4	360	400	2.2	1.9	260	300	1.7	1.5	300.0	360.0					2.8	2.1	150.0	172.0					
8.2	1.7	1.2	420	463	1.9	1.6	340	390	1.6	1.4	313.0	376.0					2.5	2.0	158.0	180.0					
10	1.4	1.0	498	550	1.6	1.4	366	422	1.4	1.3	410.0	463.0	2.10	1.65	220	265	2.3	1.8	215.0	243.0					
15																		1.9	1.5	325.0	374.0				
22									1.0	0.8	950.0	1050.0					1.4	1.2	470.0	500.0					

## High Current Molding Power Chokes

### ELECTRICAL SPECIFICATION

Size	MCS0512-XXXxT1				MCS0515-XXXxT1				MCS0518-XXXMT1				MCS0520-XXXxT1				MCS0530-XXXxT1							
	I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)	
	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.
0.10	14.5	14.0	4.3	5.2									45.0	18.0	3.6	4.0	27.0	23.0	2.5	3.0				
0.15					25.0	16.0	3.6	4.1					27.0	16.0	3.8	4.6								
0.22	14.0	10.7	5.5	6.7	20.0	12.0	5.0	6.5	22.0	13.0	4.2	5.0	25.0	15.0	4.0	5.5	21.0	15.5	3.7	4.4				
0.33	13.5	8.5	7.8	9.4	16.0	9.0	8.5	9.8	15.0	11.0	7.5	8.6	21.3	12.0	6.3	7.3	18.0	14.0	4.3	5.0				
0.36	13.0	8.0	10.0	11.5	15.5	8.5	10.0	12.5																
0.47	11.0	7.0	13.6	15.8	15.0	8.0	12.0	13.8	14.0	10.0	9.8	11.3	18.0	11.5	7.3	8.6	16.0	12.0	6.4	7.4				
0.56																	15.0	10.0	8.0	10.0				
0.68	9.0	6.0	21.5	24.5	13.0	7.0	14.0	16.2	13.0	9.0	12.4	14.3	12.8	10.0	11.0	12.4	14.0	8.5	10.0	12.0				
1.0	6.0	5.0	26	30	9.0	6.0	22.0	25.3	10.0	6.8	18.2	21.0	13.7	7.0	17.5	20.0	11.0	7.0	13.0	14.0				
1.2	5.5	4.5	33	40									11.0	6.2	23.0	28.0	11.0	6.5	14.0	16.0				
1.5	5.0	4.0	38	44	7.0	4.5	39	45	9.0	6.0	26	30	9.8	5.5	26.5	30.5	10.0	6.0	16.0	25.0				
2.2	4.0	3.5	65	75	6.0	4.0	45	52	7.5	4.5	42	48.3	9.0	4.2	42	50	9.0	5.5	25.0	35.0				
3.3	3.8	3.0	75	86	4.5	3.2	78	90	5.0	3.5	60	69	7.3	3.3	66	76	8.0	5.0	32.0	38.0				
4.7	3.2	2.5	100	115	4.0	2.7	103	118	4.5	3.0	85	98	5.0	2.8	103	116	6.0	4.6	50.0	53.0				
5.6	3.2	2.4	175	201	3.2	2.4	126	152	4.0	2.5	110	127	4.0	2.5	112	122	4.5	4.25	55.0	63.0				
6.8	3.0	2.0	193	222	3.0	2.3	142	171	3.5	2.4	118	137	3.8	2.4	130	150	4.3	4.0	68.0	76.2				
8.2	2.8	1.7	327	378	2.6	2.1	175	210	3.0	2.3	143	165	3.5	2.3	148	171								
10	1.8	1.5	335	385	2.3	2.0	210	235	2.8	2.3	165	190	3.4	2.3	180	199	3.5	2.75	110	128				
15	1.6	1.3	410	470									2.8	1.9	240	270	2.6	2.1	165	190				
18																	2.3	2.0	195	230				
22					1.7	1.2	405	466									1.7	1.9	220	250				
33													1.8	1.5	350	390	1.60	1.60	380	440				

Size	MCS0612-XXXxT1				MCS0615-XXXxT1				MCS0618-XXXMT1				MCS0620-XXXxT1				MCS0624-XXXxT1							
	I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)	
	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Typ.	Max.
0.10					35.0	17.5	2.5	3.1	45.0	18.0	2.1	2.5	40.0	21.0	2.0	2.4	70.0	30.0	1.4	1.7				
0.12					30.0	17.0	3.0	3.6																
0.15	24.0	14.0	4.9	5.7	25.0	16.0	3.7	4.5					39.0	18.0	2.3	2.7	45.0	30.0	1.8	2.3				
0.22	19.0	11.0	6.5	7.5	22.0	14.0	4.3	5.2	26.0	16.0	2.5	3.0	32.0	15.0	3.5	4.0	34.0	21.0	2.0	3.2				
0.33	16.0	9.5	9	10	18.0	11.0	6.6	7.6	22.0	14.0	4.8	5.8	25.0	14.0	4.5	5.0	30.0	18.0	3.6	4.4				
0.47	12.0	8.5	13	17	16.0	9.5	9.0	10.3	18.0	12.0	6.4	7.4	20.0	11.7	7.1	8.3	26.0	15.0	4.8	5.1				
0.56					15.5	9.0	12.5	14.0					18.0	11.0	7.9	9.3	24.0	13.0	5.5	6.5				
0.68	9.0	7.0	17	19	15.0	7.5	13.8	15.2	17.0	10.0	9.5	11.0	16.0	10.5	8.3	10.0	21.0	13.0	6.4	7.2				
0.82					14.0	7.0	20.0	24.0	15.5	8.5	11.5	14.0					17.0	11.0	8.0	9.5				
1.0	7.0	6.0	27	30	12.0	6.5	23.0	25.8	14.0	7.0	14.5	17.0	14.0	8.0	16.5	18.0	16.0	11.0	10.5	13.5				
1.2	6.8	5.0	31	36	10.5	5.6	29.0	34.0	13.5	6.5	20.0	24.0	13.0	7.5	19.0	23.0								
1.5	6.5	4.5	35	40	9.5	5.0	37	42.5	13.0	6.0	21	25.2	12.0	7.0	23.0	27.0	15.0	9.0	17.0	20.0				
2.2	5.0	4.0	53	61	6.5	4.5	48	55	11.0	6.0	31	35	10.0	6.0	32	37	14.0	7.0	23.0	28.0				
3.3	4.0	3.2	90	103	6.0	4.2	62	74	9.0	5.0	40	46	8.0	5.0	43	48	10.0	6.0	34.0	39.0				
4.7	3.8	2.5	130	150	5.0	3.8	96	111	7.0	4.0	68	76	7.0	4.5	53	60	9.0	5.5	41.0	50.0				
5.6					4.5	3.0	115	138	6.0	3.5	78	86	6.0	4.0	59	68	8.0	5.00	56.0	62.0				
6.8	3.0	2.1	172	198	3.5	2.6	128	148	5.5	3.0	93	104	5.5	4.0	63	73	7.0	4.0	65.0	72.0				
8.2					3.2	2.4	153	184	4.5	2.6	123	140	5.0	3.2	101	116	6.0	3.6	81.0	95.0				
10	2.5	1.8	280	290	2.8	2.3	180	216	3.5	2.3	143	160	4.0	2.8	134	154	5.0	3.20	92	101				
15													3.3	2.1	190	210	3.5	2.50	150	180				
22	1.7	1.2	540	600	2.5	1.5	420	504					2.5	1.5	236	280	3.0	1.8	185	215				

MLCC

Chip R

Coil

# MCS (MOLDING)

## High Current Molding Power Chokes

### ELECTRICAL SPECIFICATION

Size	MCS0630-XXXxT1				MCS0640-XXXxT1				MCS0650-XXXMT1				MCS1040-XXXxT1				MCS1050-XXXxT1						
	I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		Inductance (μH)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		Inductance (μH)		I <sub>sat</sub> (A)		I <sub>rms</sub> (A)		DCR (mΩ)		
	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	
0.10	60.0	32.5	1.2	1.7																			
0.12					64.0	32.0	0.7	1.0															
0.15	45.0	27.0	1.5	1.9	55.0	30.0	0.9	1.2						75.0	43.0	0.5	0.6						
0.22	40.0	23.0	2.1	2.8										60.0	35.0	0.80	1.0	70.0	45.0	0.45	0.5		
0.33	32.0	20.0	3.5	3.9					32.0	25.0	2.5	3.0		60.0	31.0	1.0	1.2						
0.47	26.0	17.5	4.0	4.2	28.0	23.0	3.0	3.4	30.0	22.0	3.5	3.9		43.0	28.0	1.3	1.5						
0.56	25.5	16.5	4.7	5.0	26.0	20.0	3.8	4.3	27.0	20.0	3.6	4.2		40.0	25.0	1.6	1.8						
0.68	25.0	15.5	4.8	5.5	24.0	16.0	4.1	4.5	24.0	18.0	4.0	4.5		39.0	22.0	2.4	2.7						
0.82	24.0	13.0	6.7	8.0					22.0	16.5	4.6	4.9											
1.0	22.0	11.0	8.3	10.0					20.0	15.0	6.1	6.5		36.0	18.0	3.0	3.3	30.0	22.0	2.8	3.5		
1.2	20.0	10.0	10.0	12.0					18.0	14.0	6.7	7.5		33.0	17.0	3.3	3.8	28.0	20.0	2.9	3.5		
1.5	18.0	9.0	13.0	15.0	20.0	12.0	10	12.0	16.5	12.0	8.6	9.0		33.0	16.0	4.0	4.6	27.0	19.0	3.5	4.1		
2.2	14.0	8.0	18.0	20.0	14.0	9.0	11.5	14	14.0	10.0	11.2	12		27.0	12.0	6.5	7.0	24.0	16.0	5.4	6.0		
3.3	13.5	6.0	28.0	30.0					12.0	8.0	19	20.9		20.0	11.0	10.8	11.8	22.0	14.0	9.0	10.4		
4.7	10.0	5.5	37.0	40.0	11.0	6.0	28	32.5	10.0	6.5	28	30.8		17.0	10.0	15	15.5						
5.6	9.0	5.0	43.0	48.0					9.0	6.0	43.5	49		14.0	9.0	17	19.3						
6.8	8.0	4.5	54.0	60.0	8.5	4.5	44	50	8.5	5.5	46	51.5		13.5	8.5	17.5	23.3						
8.2	7.5	4.0	64.0	68.0	8.0	4.5	55	64	8.0	5.0	56	63		12.5	8.0	20	22.5	14.5	9.0	18.5	24.0		
10	6.0	3.5	75.0	85.0	7.0	4.0	64	72	7.5	4.0	60	69		12.0	7.5	27	30	13.5	8.0	25	29		
15					4.0	3.0	80	90	6.0	3.5	81	92		10.0	6.25	40	45	9.5	5.5	37	45		
22	3.5	2.0	165.0	190.0	3.5	2.5	120	145	5.5	2.5	140	170		7.0	5.0	64	74	9.0	5.0	50	60		
33	2.5	2.0	200.0	240.0	3.2	2.0	180	210	3.5	2.0	173	200		5.0	3.5	92	112	7.5	4.3	80	92		
47	2.0	1.75	302.0	363.0					2.7	1.9	290	330		4.5	3.0	145	167	6.5	3.8	125	145		
56									2.1	1.6	342	396											
68									2.0	1.2	386	445		3.0	2.0	205	240	4.0	2.5	176	205		
100																		3.0	2.0	315	380		

MLCC

Chip R

Coil

# FH (SHIELDED)

## Multilayer Power Inductors

### ELECTRICAL SPECIFICATION

Size	FH160810		FH201210		FH201610		FH252010	
Inductance (μH)	DCR (Ω)	I <sub>rms</sub> (A)	DCR (Ω)	I <sub>rms</sub> (A)	DCR (Ω)	I <sub>rms</sub> (A)	I <sub>sat</sub> (A)	I <sub>rms</sub> (A)
0.33	0.35	0.35						
0.47			0.08	1.2	0.075	1.6	0.05	1.8
0.5	0.15	0.9	0.08	1.2				
1	0.2	0.75	0.14	1	0.12	1.3	0.08	1.4
1.5			0.2	0.8	0.13	1.2	0.09	1.3
2.2	0.3	0.65	0.2	0.8	0.14	1.2	0.09	1.3
3.3			0.24	0.7	0.16	1.1	0.12	1.2
4.7			0.28	0.7	0.2	0.9	0.15	1.1



# (SHIELDED) CSM

## ■ SMD Wire Wound Power Inductors

### ELECTRICAL SPECIFICATION

Size	CSM0310D		CSM0315D		CSM0645D		CSM0840D		
	Inductance (μH)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)
0.9									
1		1.7	1.525	2.1	2.1	8.5	6	12	8
1.3						8	5.2		
1.4								10.8	7.8
1.5		1.4	1.47	1.8	1.9				
1.8				1.75	1.7	7	5		
2								9	7.4
2.2		1.25	1.27	1.48	1.6			7.5	6
2.3						6	4.5		
3						5	4		
3.3		0.9	1.13	1.21	1.45			7	5.1
3.6								6	4.9
4.5						4	3.7		
4.7		0.85	0.925	1.08	1.25			5.5	4.6
5.1				1.08	1.09				
5.6		0.72	0.82						
6.3						3.8	3.5		
6.8		0.66	0.71	0.9	0.9			5	4.4
10		0.53	0.63	0.75	0.87	3	2.8	4	3.8
12				0.7	0.68				
15		0.42	0.475	0.58	0.65	2.3	2.3	3	2.8
18		0.42	0.47	0.56	0.59				
22		0.36	0.43	0.47	0.55	1.9	1.7	2.8	2.6
27		0.3	0.35						
33		0.28	0.345	0.39	0.45	1.5	1.5	2	1.8
39		0.28	0.28						
47		0.24	0.27	0.32	0.4	1.3	1.3	1.9	1.75
56				0.3	0.34				
68						1	1	1.7	1.45
82						0.9	0.9		
100				0.23	0.25	0.8	0.8	1.1	1.1

MLCC

Chip R

Coil

# (SHIELDED) CSMV / CSMS / CSMH

## ■ SMD Wire Wound Power Inductors

### ELECTRICAL SPECIFICATION

Size	CSMV2012D		CSMS2012D		CSMH2410D		CSMH2412D		CSMH0310D		CSMH0312D		
	Inductance (μH)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)
0.47													
0.68						2.2	1.57						
0.8													
0.9													
1		2.35	1.83	2.05	1.85	1.8	1.41	2.35	1.3			2.2	1.71
1.2										1.7	1.48		
1.3													
1.4													
1.5		1.95	1.55	1.8	1.65	1.55	1.16	2.1	1.15	1.44	1.37	1.7	1.6
1.8													
2													
2.2		1.7	1.35	1.5	1.5	1.29	0.97	1.7	1	1.3	1.3	1.5	1.37
2.3													
2.5													
3													
3.3		1.35	1.04	1.15	1.1	1	0.77	1.4	0.75	1	1.03	1.2	1.21
3.6													
4.5													
4.7		1.15	0.85	1.05	1	0.88	0.67	1.15	0.65	0.85	0.9	1	1.06
5.3													
6													
6.3													
6.8						0.75	0.57	0.95	0.55	0.7	0.745	0.85	0.89
10						0.55	0.45	0.81	0.45	0.6	0.62	0.73	0.72
15						0.47	0.37			0.45	0.48	0.53	0.57
22						0.39	0.3			0.38	0.41	0.5	0.5
33													
47													
68													
100													
150													
220													

# CSMS (SHIELDED)

## ■ SMD Wire Wound Power Inductors

### ELECTRICAL SPECIFICATION

Size Inductance ( $\mu$ H)	CSMS0315D		CSMS0410D		CSMS0412D		CSMS0418D		CSMS0510D		CSMS0512D	
	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)
0.47												
0.68												
0.8												
0.9												
1	2.1	2.1	2	1.9	2.8	2.2	4	3.2	2.35	1.75	4.5	2.3
1.2												
1.3												
1.4												
1.5	1.8	1.82					3.3	2.4			3.8	2.2
1.8												
2												
2.2	1.48	1.5	1.2	1.5	1.65	1.9	3	2.2	1.5	1.4	3.1	2
2.3												
2.5												
3												
3.3	1.21	1.23	1.1	1.4	1.4	1.7	2.3	2	1.4	1.25	2.4	1.45
3.6												
4.5												
4.7	1.02	1.04	0.95	1.2	1.2	1.5	2	1.7	1.2	1.15	2.2	1.4
5.3												
6												
6.3												
6.8	0.87	0.88	0.8	1	0.9	1.3	1.6	1.45	1	1	1.7	1.1
10	0.7	0.71	0.62	0.75	0.8	1.1	1.3	1.2	0.85	0.9	1.4	0.85
15			0.54	0.6	0.65	0.75	1.1	0.85	0.68	0.65	1.2	0.64
22	0.47	0.47	0.45	0.5	0.5	0.62	0.9	0.72	0.55	0.45		
33							0.7	0.55				
47							0.6	0.44				
68							0.52	0.32				
100							0.42	0.28				
150							0.34	0.22				
220							0.275	0.17				

Size Inductance ( $\mu$ H)	CSMS0514D		CSMS0520D		CSMS0540D		CSMS0610D		CSMS0612D		CSMS0620D	
	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)
0.47												
0.68												
0.8											6.4	4.1
0.9												
1			4	3.6								
1.2	3.8	2.4										
1.3												
1.4												
1.5			3.35	3.2	6.4	4.5	2.4	1.9			4.3	3.6
1.8												
2												
2.2	2.8	2	2.9	2.9	5	3.7	1.9	1.7			3.2	2.9
2.3												
2.5									2.1	1.8		
3												
3.3	2.35	1.7	2.4	2.4	4	3.3	1.6	1.5	1.8	1.7	2.8	2.75
3.6												
4.5												
4.7	2.05	1.4	2	2	3.3	3.1	1.3	1.4	1.6	1.55	2.4	2.15
5.3									1.5	1.55		
6												
6.3												
6.8	1.6	1.2	1.6	1.65	2.8	2.4	1.2	1.2	1.3	1.35	2	1.8
10	1.4	1.05	1.3	1.45	2.3	2.1	1	1.1	1	1.2	1.9	1.5
15	1.1	0.65	1.1	1.2	2	1.8			0.8	0.8		
22	0.9	0.55	0.9	1	1.5	1.4	0.65	0.7	0.76	0.65	1.25	0.95
33					1.3	1.2			0.59	0.55		
47					1.1	0.9			0.52	0.46		
68									0.44	0.41		
100									0.35	0.32		
150												
220												

MLCC

Chip R

Coil

# (SHIELDED) CSMS / CSCA

## ■ SMD Wire Wound Power Inductors

### ELECTRICAL SPECIFICATION

Size Inductance ( $\mu$ H)	CSMS0628D		CSMS0645D		CSMS0840D		CSCA2016D		CSCA2520D		CSCA2510D	
	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)
0.24							4.2	3				
0.47							2.8	2.8				
0.68									4	3.4	3.9	3.2
0.8									3	3	3.7	2.9
0.9	6.7	4.6			13	7.8						
1			9.8	4.5			2.2	2.2	2.7	2.7	2.7	2.5
1.2												
1.3			8.2	4.2								
1.4					10	7						
1.5	5.1	4.2					1.6	1.65	2.6	2.4		
1.8			7.2	3.9								
2					8.1	6.3						
2.2	4.2	3.7					1.5	1.5	1.9	1.9	1.9	1.5
2.3			6.4	3.6								
2.5												
3	3.6	3.4	5.6	3.3								
3.3							1.15	1.2	1.6	1.7		
3.6					6.4	4.9						
4.5			4.4	3.1								
4.7	2.7	3			5.4	4.1	1	0.95	1.3	1.3	1.3	1.1
5.3												
6	2.5	2.5										
6.3			3.6	3								
6.8					4.4	3.7						
10	1.9	1.9	3.1	2.4	3.8	3.1						
15	1.6	1.8	2.5	1.9	2.9	2.4						
22	1.3	1.4	2	1.6	2.4	2.2						
33	1.1	1.1	1.65	1.4								
47	1	0.92	1.4	1.15								
68	0.8	0.77	1.1	0.95								
100	0.65	0.66	0.9	0.75								
150												
220												

# (SHIELDED) CSME

## ■ SMD Wire Wound Power Inductors

### ELECTRICAL SPECIFICATION

Size Inductance ( $\mu$ H)	CSME0315D		CSME0412D		CSME0418D		CSME0430D		CSME0520D		CSME0540D			
	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)		
0.47							7.5	3.5						
0.68	2.1	2.1					4	3.2						
0.8														
0.9														
1	1.8	1.82					3.3	2.4	4.85	3.3	4	3.6	7.35	4.9
1.2														
1.3														
1.4	1.48	1.5					3	2.2	4.1	2.95				
1.5											3.35	3.2	6.4	4.5
1.8														
2														
2.2	1.21	1.23					2.3	2	3.3	2.4	2.9	2.9	5	3.7
2.3									3.1	2.3				
2.5														
3	1.02	1.04					2	1.7	2.9	2				
3.3									2.75	1.95	2.4	2.4	4	3.3
3.6	0.87	0.88					1.6	1.45	2.6	1.7				
4.5									2.2	1.65				
4.7									2.1	1.6	2	2	3.3	3.1
5.3	0.7	0.71	0.8	1.1	1.3	1.2	1.95	1.5						
6							1.7	1.35						
6.3							1.1	0.85	1.65	1.15				
6.8									1.4	1.1	1.6	1.65	2.8	2.4
10	0.47	0.47					0.9	0.72	1.3	1	1.3	1.45	2.3	2.1
15							0.7	0.55	1.1	0.84	1.1	1.2	2	1.8
22									0.9	0.72	0.9	1	1.5	1.4
33									0.85	0.65			1.3	1.2
47									0.75	0.55			1.1	0.9
68									0.68	0.5	0.7	0.53		
100							0.42	0.28	0.6	0.45			0.75	0.7
150									0.5	0.35				
220									0.4	0.35				

MLCC

Chip R

Coil

# CSMW (SHIELDED)

## ■ SMD Wire Wound Power Inductors

### ELECTRICAL SPECIFICATION

Size Inductance ( $\mu$ H)	CSMW0315D		CSMW0418D		CSMW0430D	
	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)
0.47						
1	2.32	2.35	4.8	2	5.3	4.15
1.2						
1.3						
1.4						
1.5	2.3	1.7	3	1.8	5.2	3.34
1.8						
2						
2.2	1.6	1.6	2.7	1.65	4.75	2.95
2.3						
2.5						
3						
3.3	1.32	1.36	2.45	1.23	3.3	2.4
3.9					3	2.1
4.5						
4.7	1.1	1.09	1.7	1.2	2.9	2
5.3						
6						
6.3						
6.8	0.85	0.85	1.45	1.06	2.7	1.6
10	0.72	0.77	1.3	0.84	1.95	1.5
15	0.66	0.65	0.94	0.65	1.85	1.1
22	0.52	0.57	0.8	0.59	1.3	1
33	0.44	0.43	0.65	0.49	1	0.84
47	0.35	0.35	0.57	0.42	0.95	0.72
51					0.88	0.7
68			0.47	0.32	0.85	0.52
100			0.4	0.25		
120					0.55	0.42
150			0.31	0.22		
220			0.27	0.17		
470					0.25	0.2

Size Inductance ( $\mu$ H)	CSMW0520D		CSMW0540D		CSMW0840D	
	Isat (A)	Irms (A)	Isat (A)	Irms (A)	Isat (A)	Irms (A)
0.24						
0.47						
1	4.33	3.8				
1.2						
1.3						
1.4						
1.5	4.1	3.2	6.3	4.3	10	7.8
1.8						
2						
2.2	3.6	2.9	4.9	3.8		
2.3						
2.5						
3						
3.3	3.25	2.9	3.95	3.4		
3.9						
4.5						
4.7	2.5	2.2	3.5	3		
5.3						
6						
6.3						
6.8	2.05	1.8	2.9	2.5		
10	1.55	1.55	2.35	2.1		
15			2	2		
22	1.15	1.1	1.6	1.5		
33	1	0.8	1.3	1.2		
47			1.1	1		
51						
68						
100						
120						
150						
220						
470						

MLCC

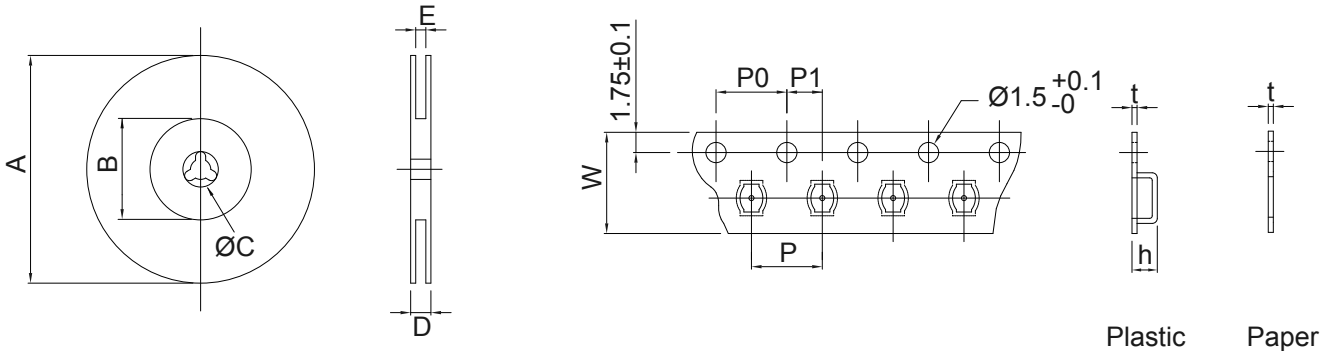
Chip R

Coil

# Tape and Reel Specifications

## CARRIER TAPE REELS

## TAPE DIMENSIONS (mm)



### SMD AIR COILS

Series P/N	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	BOX	CARTON
291A	180	75	13	16.5	12.5	12	8	4	2	3.30	0.25	500	----	2,000	12,000
291B	180	75	13	20.5	16.5	16	8	4	2	3.30	0.25	500	----	1,500	9,000
292AR	180	75	13	12.5	8.4	8	4	4	2	1.70	0.30	2,000	----	10,000	60,000
292BR	180	50	13	16.5	12.5	12	4	4	2	1.75	0.35	2,000	----	6,000	36,000
293A	340	100	13	25.5	16.5	16	12	4	2	4.40	0.30	----	1,000	1,000	10,000
294A	340	100	13	30.4	24.5	24	12	4	2	5.30	0.35	----	1,000	1,000	8,000
29B	340	100	13	18.4	12.5	12	12	4	2	6.00	0.40	----	1,000	3,000	9,000
29CAR	180	75	13	16.5	12.5	12	8	4	2	2.80	0.35	1,000	----	4,000	24,000
29CBR	180	75	13	16.5	12.5	12	8	4	2	2.80	0.35	1,000	----	4,000	24,000

### SMD SQUARE TYPE AIR COILS

Series P/N	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	BOX	CARTON
LSQ0806A	180	50	13	16.4	12.5	12	4	4	2	1.75	0.23	2,000	----	8,000	48,000
LSQ0807A	180	50	13	16.4	12.5	12	4	4	2	1.86	0.23	2,000	----	8,000	48,000
LSQ0908A	180	50	13	16.4	12.5	12	4	4	2	2.10	0.25	2,000	----	8,000	48,000
LSQ1515A	340	100	13	18.4	12.5	12	8	4	2	4.50	0.40	----	2,000	4,000	12,000

### SMD RF CHIP INDUCTORS

Series P/N	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	BOX	CARTON
0402CP	180	75	13	12.5	8.4	8	2	4	2	---	0.60	4,000	----	20,000	120,000
FEC0603CP	180	75	13	12.5	8.4	8	4	4	2	1.07	0.25	4,000	----	20,000	120,000
FEC0805CP	180	75	13	12.5	8.4	8	4	4	2	1.38	0.25	3,000	----	15,000	90,000
FEC1008CP	180	75	13	12.5	8.4	8	4	4	2	2.30	0.25	2,000	----	10,000	60,000
1210C	180	75	13	12.5	8.4	8	4	4	2	2.43	0.23	1,500	----	7,500	45,000
1812CP	180	50	13	18.4	12.4	12	8	4	2	3.60	0.35	600	----	3,000	18,000
0805F	180	75	13	12.5	8.4	8	4	4	2	1.38	0.25	3,000	----	15,000	90,000
1008F	180	75	13	12.5	8.4	8	4	4	2	2.52	0.25	2,000	----	10,000	60,000

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Chip R

Coil

# Tape and Reel Specifications

## SMD COMMON MODE CHIP COILS

Series P/N	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	BOX	CARTON
SCM2012F	180	75	13	12.5	8.4	8	4	4	2	1.45	0.22	2,000	----	10,000	60,000
SCM2012FH	180	75	13	12.5	8.4	8	4	4	2	1.45	0.22	2,000	----	10,000	60,000
SCM7038F	340	100	13	22.4	16.5	16	12	4	2	4.25	0.35	----	1,000	2,000	6,000

## SMD BALUN TRANSFORMER

Series P/N	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	BOX	CARTON
BIH2012OB	180	75	13	12.5	8.4	8	4	4	2	1.45	0.22	2,000	----	10,000	60,000

## SMD MOLDING TYPE HIGH CURRENT POWER CHOKES

Series P/N	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	BOX	CARTON
MCS0420	330	100	13	16.6	12.4	12	8	4	2	2.5	0.3	----	2,000	2,000	12,000
MCS0530	330	100	13	16.6	12.4	12	8	4	2	3.6	0.4	----	2,000	2,000	12,000
MCS0630	330	100	13	16.6	21.2	16	12	4	2	3.4	0.4	----	1,000	1,000	6,000
MCS1040	330	100	13	24.6	29.2	24	16	4	2	4.25	0.4	----	500	500	3,000

## SMD COATING RESIN TYPE POWER CHOKES

Series P/N	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	BOX	CARTON
CSM0310D	180	60	13	12.5	8.4	8	4	4	2	1.40	0.23	2,000	----	12,000	72,000
CSM0315D	180	60	13	12.5	8.4	8	4	4	2	1.70	0.23	2,000	----	12,000	72,000
CSM0645D	330	80	13	18.5	13.5	12	8	4	2	4.65	0.40	----	1,500	3,000	9,000
CSM0840D	330	100	13	22.4	16.4	16	12	4	2	4.40	0.35	----	1,000	2,000	6,000
CSMV2012D	180	60	13	16.5	11.5	8	4	4	2	1.30	0.25	2,500	----	12,500	75,000
CSMH2410D	180	60	13	16.5	11.5	8	4	4	2	1.30	0.25	2,500	----	12,500	75,000
CSMH2412D	180	60	13	16.5	11.5	8	4	4	2	1.30	0.25	2,500	----	12,500	75,000
CSMH0310D	180	60	13	16.5	11.5	8	4	4	2	1.40	0.30	2,000	----	12,000	72,000
CSMH0312D	180	60	13	16.5	11.5	8	4	4	2	1.60	0.30	2,000	----	12,000	72,000
CSMS2012D	180	60	13	16.5	11.5	8	4	4	2	1.30	0.25	2,500	----	12,500	75,000
CSMS0315D	180	60	13	16.5	11.5	8	4	4	2	2.00	0.30	2,000	----	12,000	72,000
CSMS0410D	330	80	13	18.5	13.5	12	8	4	2	1.40	0.30	----	5,000	10,000	40,000
CSMS0412D	330	80	13	18.5	13.5	12	8	4	2	1.60	0.30	----	4,500	9,000	36,000
CSMS0418D	330	80	13	18.5	13.5	12	8	4	2	2.10	0.30	----	3,500	7,000	28,000
CSMS0510D	180	60	13	20.5	15.5	12	8	4	2	1.40	0.30	1,000	----	4,000	24,000
CSMS0512D	180	60	13	20.5	15.5	12	8	4	2	1.40	0.30	1,000	----	4,000	24,000
CSMS0514D	180	60	13	20.5	15.5	12	8	4	2	2.00	0.30	1,000	----	4,000	24,000
CSMS0520D	180	60	13	20.5	15.5	12	8	4	2	2.30	0.30	800	----	3,200	19,200
CSMS0540D	330	80	13	18.5	13.5	12	8	4	2	4.20	0.40	----	1,500	3,000	9,000
CSMS0610D	180	60	13	20.5	15.5	12	8	4	2	1.40	0.40	1,000	----	4,000	24,000
CSMS0612D	180	60	13	20.5	15.5	12	8	4	2	1.60	0.40	1,000	----	4,000	24,000
CSMS0620D	330	80	13	18.5	13.5	12	8	4	2	2.30	0.40	----	2,500	5,000	15,000
CSMS0628D	330	80	13	18.5	13.5	12	8	4	2	3.10	0.40	----	2,000	4,000	24,000
CSMS0645D	330	80	13	18.5	13.5	12	8	4	2	4.70	0.40	----	1,500	3,000	12,000
CSMS0840D	330	80	13	22.5	17.5	16	12	4	2	4.50	0.50	----	1,000	2,000	8,000
CSCA2016D	180	60	13	16.5	11.5	8	4	4	2	1.35	0.25	3,000	----	15,000	90,000
CSCA2520D	180	60	13	16.5	11.5	8	4	4	2	1.75	0.30	3,000	----	15,000	90,000
CSCD2012D	180	60	13	16.5	11.5	8	4	4	2	1.60	0.25	2,500	----	12,500	75,000

MLCC

Chip R

Coil



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