

Innovative Technology
for a Connected World

FEATURES

- Small size (L x W : EIA 0805, 0806 and 1008) with max 1.0 mm in thickness
- Lead-free product and support lead-free soldering
- Applications: mainly for DC-DC converters and power modules. Compact electrical instruments like DSCs, DVCs, PDA, DVD and HDDs, cellular phones
- Operation temperature: -55°C ~ +125°C
- Rated Current Definition: Temperature rise to 40°C max.



PART NUMBERING SYSTEM EXAMPLE

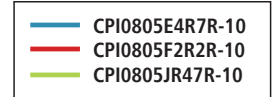
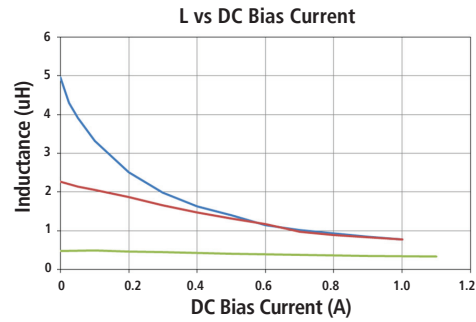
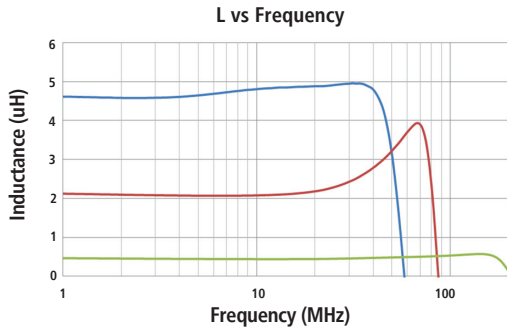
CPI	0805	J	R47	R	-10
Product Series Code	EIA Size Code	Rated Current Code	Inductance Value Code	Packing Code	Additional Description
RATED CURRENT CODE					
E = 500 mA F = 600 mA G = 700 mA H = 800 mA I = 900 mA J = 1000 mA ≤ IDC < 1500 mA K = 1500 mA ≤ IDC < 2000 mA					
INDUCTANCE VALUE CODE					
R47 = 0.47 μH 1R0 = 1.0 μH 4R7 = 4.7 μH					

EIA PKG. SIZE	METRIC PKG. SIZE	PART NUMBER	INDUCTANCE (μH)	INDUCTANCE TOLERANCE	TEST FREQ. (MHZ)	DCR (Ω)	RATED CURRENT MAX (mA)
0805	2012	CPI0805JR47R-10	0.47	20%	1	0.10±25%	1100
0805	2012	CPI0805JR68R-10	0.68	20%	1	0.12±25%	1000
0805	2012	CPI0805JR82R-10	0.82	20%	1	0.14±25%	900
0805	2012	CPI0805H1R0R-10	1.0	20%	1	0.16±25%	800
0805	2012	CPI0805H1R2R-10	1.2	20%	1	0.16±25%	800
0805	2012	CPI0805G1R5R-10	1.5	20%	1	0.22±25%	700
0805	2012	CPI0805G1R8R-10	1.8	20%	1	0.22±25%	700
0805	2012	CPI0805F2R2R-10	2.2	20%	1	0.25±25%	600
0805	2012	CPI0805E3R3R-10	3.3	20%	1	0.22±25%	500
0805	2012	CPI0805E4R7R-10	4.7	20%	1	0.30±25%	500
0806	2016	CPI0806KR47R-10	0.47	20%	1	0.14±30%	1500
0806	2016	CPI0806KR68R-10	0.68	20%	1	0.15±30%	1500
0806	2016	CPI0806KR82R-10	0.82	20%	1	0.16±30%	1500
0806	2016	CPI0806J1R0R-10	1.0	20%	1	0.16±30%	1400
0806	2016	CPI0806J1R2R-10	1.2	20%	1	0.16±30%	1400
0806	2016	CPI0806J1R5R-10	1.5	20%	1	0.20±30%	1200
0806	2016	CPI0806J1R8R-10	1.8	20%	1	0.20±30%	1200
0806	2016	CPI0806J2R2R-10	2.2	20%	1	0.22±30%	1200
0806	2016	CPI0806J3R3R-10	3.3	20%	1	0.24±30%	1100
0806	2016	CPI0806J4R7R-10	4.7	20%	1	0.30±30%	1100
1008	2520	CPI1008KR47R-10	0.47	20%	1	0.07±25%	1800
1008	2520	CPI1008KR68R-10	0.68	20%	1	0.09±25%	1700
1008	2520	CPI1008KR82R-10	0.82	20%	1	0.10±25%	1700
1008	2520	CPI1008K1R0R-10	1.0	20%	1	0.11±25%	1600
1008	2520	CPI1008K1R2R-10	1.2	20%	1	0.11±25%	1600
1008	2520	CPI1008K1R5R-10	1.5	20%	1	0.13±25%	1500
1008	2520	CPI1008K1R8R-10	1.8	20%	1	0.13±25%	1500
1008	2520	CPI1008J2R2R-10	2.2	20%	1	0.17±25%	1300
1008	2520	CPI1008J3R3R-10	3.3	20%	1	0.16±25%	1200
1008	2520	CPI1008J4R7R-10	4.7	20%	1	0.20±25%	1100

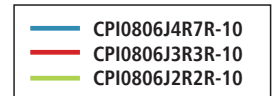
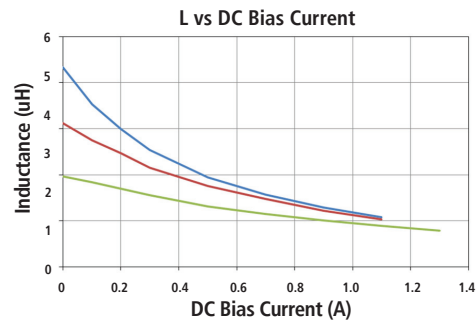
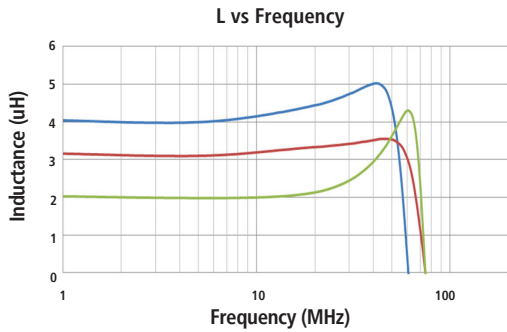
DIMENSION

METRIC (EIA) PKG. SIZE	A mm (INCHES)	B mm (INCHES)	C* mm (INCHES)	D mm (INCHES)	MONOLITHIC POWER CHIP INDUCTOR
2012 (0805)	2.00±0.20 (0.079±0.008)	1.25±0.20 (0.049±0.008)	0.9±0.10 (0.035±0.004)	0.5±0.20 (0.02±0.008)	
2016 (0806)	2.00±0.15 (0.079±0.006)	1.60±0.15 (0.063±0.006)	0.9±0.10 (0.035±0.004)	0.5±0.20 (0.02±0.008)	
2520 (1008)	2.50±0.20 (0.098±0.008)	2.00±0.20 (0.079±0.008)	0.9±0.10 (0.035±0.004)	0.6±0.20 (0.024±0.008)	

0805 Characteristics



0806 Characteristics



1008 Characteristics

