







SMT Common Mode Chokes for power line applications

- · Solutions for use in a wide array of power line circuits
- Ideal for use in consumer electronics and industrial applications
- Suppression of high frequency common mode noise up to 100 MHz
- Excellent current ratings up to 10 A
- Isolation (hipot) up to 1500 Vrms
- · Surface mount toroids
- Upon request, additional values may be available for particular applications



Part	Common mode peak impedance	Inducta	Inductance (mH)		DCR max	Isolation	Length max	Width max	Height max	
number	(kOhms)	nom	min	(A)	(mOhms)	(Vrms)	(mm)	(mm)	(mm)	Page
CE1755-AL	3.32 @ 5.1 MHz	0.88	0.57	1.2	130	1000	13.00	13.00	5.46	2
CR7915-AL	3.10 @ 4.9 MHz	1.12	0.73	2.6	49.5	1500	13.00	13.00	5.60	3
CF3094-AL	7.93 @ 2.5 MHz	1.17	0.76	1.1	200	1000	13.00	13.00	5.46	4
CM6518-AL	4.17 @ 1.9 MHz	1.40	0.91	2.5	60.0	1500	16.38	14.22	8.90	5
CJ5094-CL	28.28 @ 0.26 MHz	10.0	6.5	1.2	180	1000	16.38	14.22	8.90	6
CV9172-AL	70.01 @ 0.21 MHz	22.0	14.3	0.57	850	1000	16.38	14.22	8.90	7
CF2638L	2.59 @ 4.3 MHz	0.22	0.14	2.9	60.0	1000	19.56	17.02	9.91	8
CD1479-AL	4.19 @ 3.0 MHz	0.59	0.38	4.2	20.0	1000	19.56	17.02	9.91	9
CH4659-AL	4.56 @ 2.5 MHz	0.77	0.50	4.7	40.0	1000	19.56	17.02	9.91	10
CD1480-BL	4.53 @ 2.2 MHz	1.32	0.85	3.5	60.0	1000	19.56	17.02	9.91	11
CE2439L	9.42 @ 1.1 MHz	1.47	0.96	2.5	80.0	1000	19.56	17.02	9.91	12
CG3333-AL	2.27 @ 2.9 MHz	0.90	0.59	3.7	50.0	1000	19.56	17.02	9.90	13
CG3528-AL	6.23 @ 0.72 MHz	3.00	1.95	3.1	42.0	1000	19.56	17.02	9.91	14
CE1759-AL	4.82 @ 0.99 MHz	0.81	0.52	6.0	14.0	1000	31.0	26.0	13.0	15
CG3885-AL	3.11 @ 1.8 MHz	0.47	0.30	10.0	8.0	1000	31.0	26.0	12.7	16
CF2805-AL	3.64 @ 1.9 MHz	0.63	0.40	6.8	14.0	1000	31.0	26.0	12.7	17



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Common Mode Choke – CE1755-AL

	Common mode impedance	Inductanc	e (mH) ²	Irms ³	DCR max ⁴	Isolation ⁵			
Part number ¹	max (kOhms)	nom	min	(A)	(mOhms)	(Vrms)			
CE1755-AL_	3.32 @ 5.1 MHz	0.88	0.57	1.2	130	1000			
1. When ordering, pleas	e specify packaging code:		Typic	al Attenuati	on				
	CE1755-ALD		-)						
Packaging: D = 13' tap	" machine-ready reel. EIA-481 er be (600 parts per full reel).	nbossed plastic	0	Differential	mode				
B = Le: To	ss than full reel. In tape, but not n have a leader and trailer added (de letter D instead.	nachine ready. \$25 charge), use	5 — 10 —						
2. Inductance shown for 0 Adc on an Agilent/H	each winding, measured at 100 IP 4263B LCR meter or equivaler	kHz, 0.1 Vrms, nt.	(BP 15						
 Current per winding the information is for reference mum ratings 	nat causes a 40°C rise from 25°C rence only and does not represer	ambient. This absolute maxi-							
4. DCR is specified per	winding.		nue						
5. Isolation (hipot) meas	ured for two seconds.		25						
6. Electrical specification	ns at 25°C.		•						
Refer to Doc 362 "Solderin	ng Surface Mount Components" be	fore soldering.	30 —		Common mode				
			35 —						
			40						
	3		0.1	1	10	10			
0.512 13,0 max CE1755 XXXX	-AL Y - Internal code								
2	Typic	al Impedanc	e versus Frequ	iency					
<0.512 m	ax —►								
15,0	I								
¥									
0.215			hr h						
5,46 max			(ko						
ïШI			8 1			\rightarrow			
			an						
			ped –						
-	0.175		<u> </u>						
1	3								
0.410 Recomme	ended								
^{10,41} Land Pat	ttern		0.1						
2	4		0.1	1	10	10			
					Frequency (MHz)				
$-\frac{0.330}{8,38}$	→ <u>0.060</u> Dimen	sions are in $\frac{\text{inches}}{mm}$	Core mat	erial Ferrite					
	1,02		Terminat	ions RoHS complia	ant tin-silver-copper ove	er copper			
			Ambient	temperature –40°	C to +85°C with Irms o	urrent			
			Maximun	n part temperature	+125°C (ambient + te	emp rise)			
			Storage	emperature Comp	onent: -40°C to +125°	C.			
			lape and Resistan	reel packaging: -40	rt to +80°C at Max three 40 secon	nd reflows at			
	30-04		+260°C, p	parts cooled to room	temperature between	cycles			

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity) Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332 Packaging 600/13" reel Plastic tape: 24 mm wide, 0.4 mm thick, 16 mm pocket spacing, 5.5 mm pocket depth PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.



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Common Mode Choke – CR7915-AL

Part number ¹	Common mode impedance max (kOhms)	Inductance	e (mH) ² min		Irms ³ (A)	DCR max ⁴ (mOhms)	Isolation ⁵ (Vrms)
CR7915-AL	3.10 @ 4.9 MHz	1.12	0.73		2.6	49.5	1500
1. When ordering, please	e specify packaging code:		Tvi	nical	Attenuation	10.0	1000
	CR7915-ALD		± y]	picar		L	
Packaging: D = 13' tap	" machine-ready reel. EIA-481 er e (600 parts per full reel).	nbossed plastic		5	Differential mode		
B = Les To coo	ss than full reel. In tape, but not n have a leader and trailer added (de letter D instead.	hachine ready. \$25 charge), use	10	o			
2. Inductance shown for 0 Adc on an Agilent/H	each winding, measured at 10 k IP 4263B LCR meter or equivale	Hz, 0.1 Vrms, nt.	(gp)	5			
 Current per winding the information is for reference mum ratings. 	rat causes a 40°C rise from 25°C rence only and does not represer	ambient. This it absolute maxi-	nation	o			
4. DCR is specified per v	winding.			5			
5. Isolation (hipot) meas	ured for two seconds.		Att				
Befer to Doc 362 "Solderin	15 al 25 C. na Surface Mount Components" he	fore soldering	30	0			
	ig oundee mount components be	lore soldering.	0	_		Common mode	
			3:	5			
			40	0.1	1	10	100
0.512 120 max CR7915	-AL				Fre	quency (MHz)	
	4 Internal code		Typ	pical	Impedance	versus Frequ	ency
			10	0			
0.512							
13,0							
Ţ							
0.220 max	- 		wh0				
	<u> </u>		l) eor	1			
I			daı				
_	0.175		be				
	4,45		<u> </u>				
1	3						
0.410 10.41 Recomme	ended tern		0.1				
2	4		0.	0.1	1 Ero	10 10	100
 0.330 8.38 	→ 0.060 1.50 Dimen	sions are in $\frac{\text{inches}}{m}$	Core	materia	al Ferrite		
	1,52		Term Weig	ination ht 1.53	s RoHS compliant	tin-silver-copper ove	r copper
			Ambi Maxir	mum pa	art temperature -40°C to	25°C (ambient + ter	mp rise)
			Tape	and ree	packaging: –40°C	to +80°C	J.
			Resis	stance	to soldering heat	Max three 40 second	d reflows at
	30-04		H260	ture Se	s cooled to room tel	L) 1 (unlimited floor	cycles · life at <30°C /
			85% ו	relative	humidity)		
			Failui 38 pe	r es in T r billion	i me (FIT) / Mean T i hours / 26.315.789 h	me Between Failur ours, calculated per	'es (MTBF) Telcordia SR-332
			Packa	aging (600/13" reel Plasti	c tape: 24 mm wide	, 0.4 mm thick,
			16 mr	m pocke washin	et spacing, 5.5 mm	0000 000 000 000 000 000 000 000 000 0	is an additional
			aqueo	ous was	h. See Doc787_PCE	3_Washing.pdf.	
Quilla	US +1-84 UK +44-1	7-639-6400 sale 236-730595 sale	es@coilcra	aft.com aft-euro	Do ppe.com	ocument 1194P-3	© Coilcraft Inc. 201
Coucre		886-2-2264 3646	sales@c	coilcraft	.com.tw	This product may not be risk applications without	used in medical or high prior Coilcraft approve

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Common Mode Chokes – CF3094-AL

	Common mode	Inductanc	e (mH) ²	2	Irms ³	DCR max ⁴ Isolatic	on ⁵
Part number ¹	max (kOhms)	nom	min		(A)	(mOhms) (Vrms	5)
CF3094-AL_	7.93 @ 2.5 MHz	1.17	0.76		1.1	200 1000	
1. When ordering, pleas	se specify packaging code:		Τı	vnical	Atten	uation	
	CF3094-ALD		I)	picar	muun	uation	
Packaging: D = 13 tap	" machine-ready reel. EIA-481 er be (600 parts per full reel).	nbossed plastic		5	Differe	ntial mode	
B = Le To	ess than full reel. In tape, but not r have a leader and trailer added (de letter D instead	nachine ready. (\$25 charge), use		10			+++
 Inductance shown for 0 Adc on an Agilent/H 	r each winding, measured at 10 k IP 4263B LCR meter or equivale	Hz, 0.1 Vrms, nt.	dB)	15			┦
 Current per winding the information is for reference mum ratings. 	hat causes a 40°C rise from 25°C rence only and does not represent	C ambient. This nt absolute maxi-	lation (20			
4. DCR is specified per	winding.		enr	30	\mathbb{N}		411
5. Isolation (hipot) meas	sured for two seconds.		Att	35			
6. Electrical specification	ns at 25°C. Ing Surface Mount Components" ba	foro coldoring		35			
	ng Sunace Mount Components be	iore soldering.		40		Common mode	++++
				45			++++
	3			0.1		1 10 Erequency (MHz)	100
0.512 13,0 max CF3094 XXXX	-AL Y - Internal code		T		T		
	4		T	pical	Impeo	ance versus Frequency	
0.510							
$-\frac{0.512}{13,0}$ m	nax —>						
1			_				
¥			Ę				
$\frac{0.215}{5.46}$ max			õ				
) ec		1	N	
Ť			lan				N
	0 175		pec				
->	4,45		<u></u>				++++
0.410 B asamma	onded						++++
^{10,410} Recomme	ttern			0.1			
2	4			0.1		1 10	10
						Frequency (MHz)	
 <- 0.330 8,38 	$\frac{0}{1.52}$ Dimen	sions are in $\frac{\text{inches}}{\text{mm}}$	Cor	re materia	al Ferrite	emplicent tip eilver conner ever conner	
			We	ight 1.38	3 g		
			Am	bient ten	nperature	-40°C to +85°C with Irms current	
			Sto	rade tem	art tempe	Component: -40° C to $+125^{\circ}$ C.	
			Тар	e and ree	l packagir	ng: -40°C to +80°C	
			+26	Sistance 1 60°C. part	t o solderi s cooled t	ng heat Max three 40 second reflows at p room temperature between cvcles	
	30-04		Mo	isture Se	nsitivity L	_evel (MSL) 1 (unlimited floor life at <30°	С/
			85% Fai	% relative lures in T	numiaity) ime (FIT)	/ Mean Time Between Failures (MTBF)	
			38	per billion	hours / 26,	315,789 hours, calculated per Telcordia SF	3-332
			Pac 16	mm pocke	oUU/13" re et spacing	ei Plastic tape: 24 mm wide, 0.4 mm th , 5.5 mm pocket depth	ICK,
			PC	B washin	g Tested to	o MIL-STD-202 Method 215 plus an additio	onal
	··•	7 000 0 000	aqu	cous wds			
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Common Mode Choke – CM6518-AL



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Common Mode Choke – CJ5094-CL



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Common Mode Choke – CV9172-AL



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Common Mode Choke – CF2638L





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Common Mode Choke – CD1479-AL





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Common Mode Choke – CH4659-AL





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Common Mode Choke – CD1480-BL





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Common Mode Choke – CE2439L





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Common Mode Chokes – CG3333-AL





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Common Mode Chokes – CG3528-AL





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Common Mode Choke – CE1759-AL





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Tape and reel packaging: -40°C to +80°C

32 mm pocket spacing, 12.4 mm pocket depth

aqueous wash. See Doc787_PCB_Washing.pdf.

85% relative humidity)

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C /

Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332 Packaging 120/13" reel Plastic tape: 44 mm wide, 0.5 mm thick,

PCB washing Tested to MIL-STD-202 Method 215 plus an additional

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Common Mode Choke – CG3885-AL



PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.



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Common Mode Choke – CF2805-AL



PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.



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