

APPLICATION

- SURGE PROTECTION
- INPUT OR OUTPUT FILTER FOR SWITCHMODE POWER SUPPLY
- INVERTERS & CONVERTERS
- VOLTAGE MULTIPLIERS
- HIGH CV APPLICATIONS



FEATURES

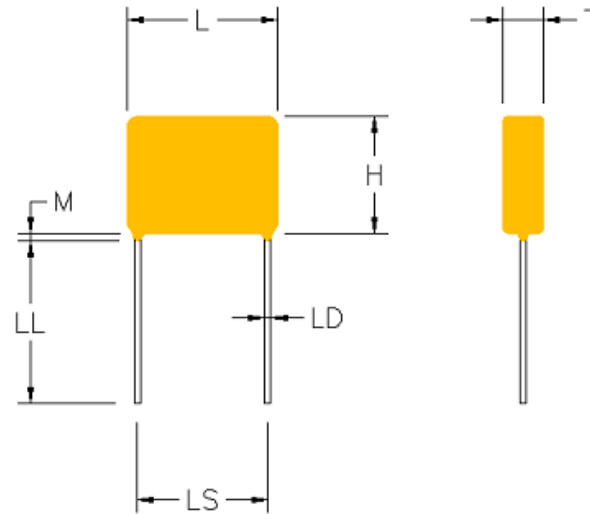
- EXCELLENT FREQUENCY RESPONSE
- WILL WITHSTAND HARSH ENVIRONMENTS
- HIGH CURRENT CAPABILITIES
- CUSTOM SIZES AVAILABLE
- VERY HIGH RELIABILITY
- AVAILABE WITH OR WITHOUT Pb SOLDER

PART NUMBERING

Part Number Example: CMRH-016/124KN03TF									
CMRH	-	016	/	124	K	N	03	T	F
Type		Rated DC Voltage		Capacitance Code (pF)*	Tolerance Code	Dielectric Material**	Case Size	Package Code***	RoHs Compliant
* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).									
** Dielectric Material: N = NPO, X = X7R & B = BX .									
*** Package Code: T = Tape & Reel, TA = Tape & Ammo, B = Bulk									

SPECIFICATIONS

OPERATING TEMPERATURE:	-55~+125°C
RATED VOLTAGE RANGE:	16~5000vdc
TEMPERATURE COEFFICIENT:	NPO: ≤ ±30ppm FROM -55 TO +125°C (EIA CLASS I) X7R: ≤ ±15% FROM -55 TO +125°C (EIA CLASS II) BX: ≤ ±15% FROM -55 TO +125°C (EIA CLASS II)
CAPACITANCE RANGE:	NPO: 100pF ~ 2.7μF X7R: 300pF ~ 56μF BX: 100nF ~ 47μF
CAPACITANCE TOLERANCE:	J ±5%, K ±10% & M ±20%
DISSIPATION FACTOR:	NPO: Q = 1000 min. X7R & BX: DF = ≤ 2.5%
INSULATION RESISTANCE:	10G ohm or 1000 ohm/mfd, WHICHEVER IS LESS
AGING:	NPO 0%, X7R 2.5% & BX 1%,
DIELECTRIC WITHSTAND VOLTAGE:	2.5 X RV (RV ≤ 200)
	2 X RV (<500V)
	1.5 X RV (RV = 500V)
	1.2 X RV (RV >500V)



STD LEAD LENGTH (LL)
25.4mm / 1 INCH

DIMENSIONS

SIZE CODE	L	H	T	LS	LD
01	.200(5.08)	.200(5.08)	.200(5.08)	.200(5.08)	.020(.508)
02	.250(6.35)	.220(5.59)	.270(6.86)	.170(4.32)	.025(.635)
03	.300(7.62)	.330(8.38)	.200(5.08)	.200(5.08)	.020(.508)
04	.400(10.16)	.400(10.16)	.200(5.08)	.200(5.08)	.020(.508)
05	.500(12.70)	.500(12.70)	.200(5.08)	.400(10.16)	.025(.635)
06	.870(22.00)	.600(15.20)	.200(5.08)	.790(20.10)	.032(.813)
07	1.100(27.90)	.600(15.20)	.200(5.08)	.980(24.90)	.032(.813)
08	1.100(27.90)	.600(15.20)	.350(8.89)	.980(24.90)	.032(.813)
09	.670(17.00)	.540(13.70)	.200(5.08)	.575(14.60)	.025(.635)
10	.930(23.60)	.720(18.30)	.250(6.35)	.800(20.30)	.032(.813)
11	1.45(36.80)	.720(18.30)	.320(8.13)	1.375(34.90)	.025(.635)
12	.370(9.40)	.300(7.62)	.270(6.86)	.275(6.99)	.025(.635)

MAX CAPACITANCE FOR NPO

SIZE	16DC	25VDC	50VDC	100VDC	200VDC	500VDC	1KVDC	2KVDC	3KVDC	4KVDC	5KVDC
01	223	153	123	103	562	182	821	471	221	151	101
02	563	473	333	183	822	472	152	681	331	151	101
03	124	703	603	503	403	203	682	332	182	102	471
04	184	124	104	823	503	303	103	472	102	331	181
05	394	244	204	184	114	703	223	103	682	222	103
06	105	754	624	564	364	244	823	393	273	822	472
07	135	824	684	564	394	264	104	473	333	103	522
08	154	125	115	824	474	334	154	683	473	183	103
09	954	334	274	224	184	563	273	822	562	272	182
10	155	105	904	754	474	304	124	623	393	123	562
11	275	185	165	125	684	474	224	823	563	273	183
12	164	104	823	683	393	273	822	392	821	271	161

* CUSTOM SIZES AND VALUES AVAILABLE, PLS CONSULT SALES

MAX CAPACITANCE FOR X7R

SIZE	16DC	25VDC	50VDC	100VDC	200VDC	500VDC	1KVDC	2KVDC	3KVDC	4KVDC	5KVDC
01	115	105	924	754	454	114	682	332	152	501	301
02	265	145	135	105	564	144	183	332	222	102	501
03	285	255	225	185	115	284	104	103	472	332	182
04	375	335	305	245	155	384	184	104	683	223	103
05	136	126	116	925	555	135	334	184	104	333	183
06	406	366	326	266	166	405	105	474	334	104	473
07	436	396	366	286	176	445	824	564	334	224	823
08	656	586	546	466	296	735	185	824	564	274	104
09	236	216	196	156	975	245	394	124	563	273	822
10	436	396	366	306	196	485	275	155	105	334	184
11	127	117	107	926	556	136	275	165	824	394	224
12	405	365	335	295	225	574	124	823	563	183	822

MAX CAPACITANCE FOR BX

SIZE	50VDC	100VDC	200VDC	500VDC
01	534	284	184	763
02	704	444	254	104
03	105	644	384	164
04	155	964	584	234
05	495	305	185	724
06	126	755	465	185
07	156	965	595	235
08	306	186	985	405
09	835	525	315	125
10	196	126	685	275
11	476	286	156	605
12	225	135	784	324

*** CUSTOM SIZES AND VALUES AVAILABLE, PLEASE CONSULT SALES**