Type CD16 & CDV16 Snubber and RF Application, Mica Capacitors

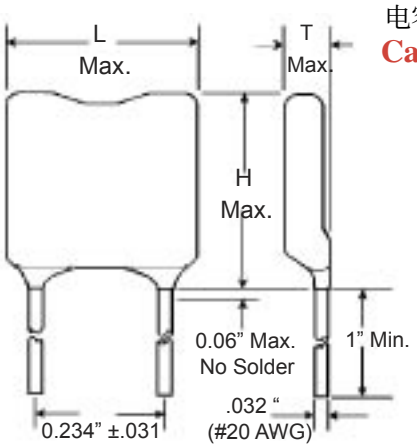
耐高电压上升速率和插入损耗

Higher dV/dt Capability and Flatter Insertion Loss

适用于突波吸收和射频设备，CDV16型云母电容器可以处理高电压上升速率，
Ideal for snubber and RF applications, CDV16 mica capacitors now handle
可到达275,000伏/毫秒 并且保证可控。到达1GHZ共谐振无限制。
dV/dts up to 275,000 V/µs and they assure controlled, resonance-free
CDV16型/CD16型云母电容器非常适用于
performance through 1 GHz. CDV16/CD16 mica capacitors excel in both
像射频及有线电视之类的，突波吸收设备和非常高频设备。
snubber applications and high-frequency applications like RF and CATV.
CDV16型的高脉冲电流的能力使它们适合于脉冲和突波吸收设备。
Type CDV16's high pulse current capability make them ideal for pulse and
CDV16型在电压上升速率为25,000伏/毫秒之内，可承受无限制的脉冲电流。
snubber applications. CDV16 capacitors withstand an unlimited number of
pulses with a dV/dt of 2 5,000 V/µs. This is a 20% increase in dV/dt
CDV16型比CDV19型可承受多于20%的电压的上升速率，并且CDV16型尺寸更小。CDE16型电容器可承受的最高电流为825安
capability when compared to our CDV19 mica capacitors and CDV16's are smaller too. CDV16 capacitors handle
在5MHz到30MHz的时候，CDV16型他们也可以承受连续的瞬间电流
higher peak currents — up to 825 amps. They also handle high continuous RMS current at 5 MHz and up to 30
例如，在13.56MHz下一个470pF 的CDV16型电容器能够承受6.2安培瞬间电流并且1/4陶瓷电容的成本。
MHz. For example, a 470 pF CDV16 capacitor handles 6.2 A rms continuously at 13.56 MHz and it is 1/4 the cost
CDV16很適合做為突波吸收适用于突波吸收和射频设备，
of a comparable porcelain ceramic capacitor. In addition to being great for snubbers, CDV16 is a fit for your FR
他们紧密的尺寸教接近的角距，改善了插入损耗- 插入损耗 +/- 0.2dB，典型到一个GHz之内。
applications. Their compact size and closer lead spacing improves insertion loss performance — insertion loss
data is flat within ±0.2 dB, typically to beyond a gigahertz.

规范
Specifications

符合Ememption #5环保材料
RoHS Compliant with Exemption #5



电容量范围
Capacitance Range: 100 pF to 7,500 pF

电压等级
Voltage Ratings: 500 Vdc & 1,000 Vdc

电容误差
Capacitance Tolerance: ±5% (J) standard; ±1% (F) and ±2% (G) available

温度范围
Temperature Range: –55 °C to +125 °C

电流等级
Current Rating: Up to 9 A rms and 1500 A peak capability

电压上升速率的能力
dV/dt Capability: Up to 25,000 V/µsec for CD16

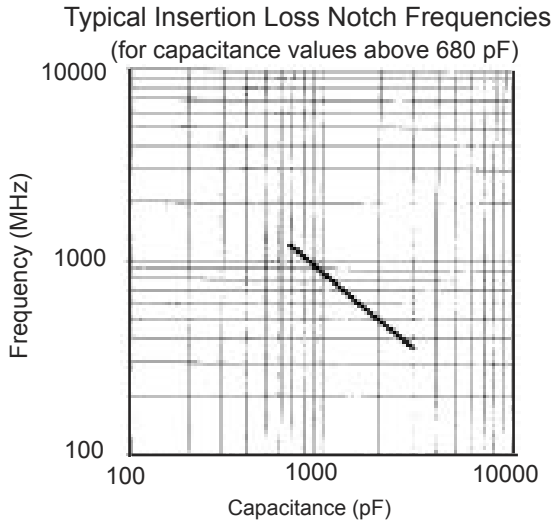
Up to 275,000 V/µsec for CDV16

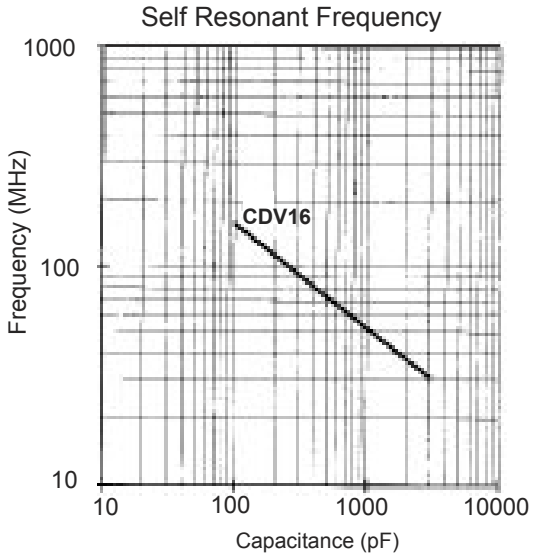
编带
Tape and Reel: Available

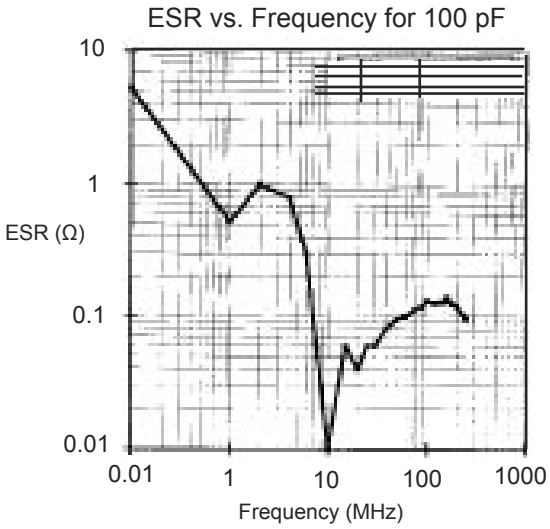
Type CD16 & CDV16 Snubber and RF Application, Mica Capacitors

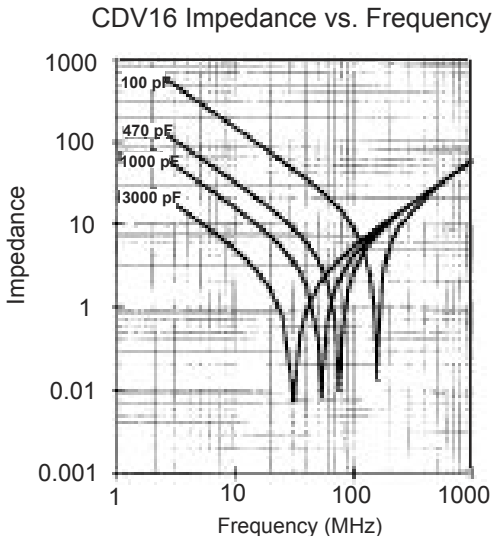
代表型特征曲线

Typical Performance Curves









种类

Ratings

符合Ememption #5环保材料

RoHS Compliant with Exemption #5

电容量 Cap. (pF)	目录型号 Catalog Part Number	长度 L in (mm)	高度 H in (mm)	厚度 T in (mm)	瞬间最大电流 Ipk Amps	85C最大连续电流 Max Continuous Current @ 85°C, Amps 100kHz	250 kHz	500 kHz	1MHz	2.5MHz	5MHz
500 Vdc (300 Vac)											
100	CD16FD101J03F	.43 (10.9)	.46 (11.7)	0.15 (3.8)	20	0.019	0.047	0.09	0.19	0.47	0.78
120	CD16FD121J03F	.43 (10.9)	.46 (11.7)	0.15 (3.8)	24	0.023	0.057	0.11	0.23	0.57	0.86
150	CD16FD151J03F	.43 (10.9)	.46 (11.7)	0.15 (3.8)	30	0.028	0.071	0.14	0.28	0.71	0.96
180	CD16FD181J03F	.43 (10.9)	.46 (11.7)	0.15 (3.8)	36	0.034	0.085	0.17	0.34	0.85	1.1
220	CD16FD221J03F	.43 (10.9)	.46 (11.7)	0.15 (3.8)	44	0.041	0.10	0.21	0.41	1.0	1.2
270	CD16FD271J03F	.45 (11.4)	.47 (11.9)	0.16 (4.1)	54	0.051	0.13	0.25	0.51	1.3	1.3
330	CD16FD331J03F	.45 (11.4)	.47 (11.9)	0.16 (4.1)	66	0.062	0.16	0.31	0.62	1.5	1.5
390	CD16FD391J03F	.45 (11.4)	.47 (11.9)	0.16 (4.1)	78	0.074	0.18	0.37	0.74	1.6	1.6
470	CD16FD471J03F	.45 (11.4)	.47 (11.9)	0.16 (4.1)	94	0.089	0.22	0.44	0.89	1.8	1.8
560	CD16FD561J03F	.46 (11.7)	.50 (12.7)	0.18 (4.6)	110	0.11	0.26	0.53	1.1	2.0	2.0

Type CD16 & CDV16 Snubber and RF Application, Mica Capacitors

种类

Ratings

符合Ememption #5环保材料

RoHS Compliant with Exemption #5

电容量 Cap. (pF)	目录型号 Catalog Part Number	长度 L in (mm)	高度 H in (mm)	厚度 T in (mm)	瞬间最大电流 Ipk Amps	85C最大连续电流 Max Continuous Current @ 85°C, Amps 100kHz	250 kHz	500 kHz	1MHz	2.5MHz	5MHz
500 Vdc (300 Vac)											
680	CD16FD681J03F	.46 (11.7)	.50 (12.7)	0.18 (4.6)	160	0.15	0.39	0.77	1.5	2.5	2.5
820	CD16FD821J03F	.46 (11.7)	.50 (12.7)	0.18 (4.6)	160	0.15	0.39	0.77	1.5	2.5	2.5
1000	CD16FD102J03F	.46 (11.7)	.50 (12.7)	0.18 (4.6)	200	0.19	0.47	0.94	1.9	2.7	2.7
1200	CD16FD122J03F	.46 (11.7)	.50 (12.7)	0.18 (4.6)	240	0.23	0.57	1.1	2.3	3.0	3.0
1500	CD16FD152J03F	.46 (11.7)	.50 (12.7)	0.18 (4.6)	300	0.28	0.71	1.4	2.7	3.3	3.3
1800*	CD16FD182J03F	.47 (11.9)	.52 (13.2)	0.25 (6.4)	360	0.34	0.85	1.7	3.4	4.1	4.1
2200	CD16FD222J03F	.47 (11.9)	.52 (13.2)	0.25 (6.4)	440	0.41	1.0	2.1	4.1	4.5	4.5
2700	CD16FD272J03F	.47 (11.9)	.52 (13.2)	0.25 (6.4)	540	0.51	1.3	2.5	5.0	5.0	5.0
3000	CD16FD302J03F	.47 (11.9)	.52 (13.2)	0.25 (6.4)	600	0.57	1.4	2.8	5.2	5.2	5.2
3300	CD16FD332J03F	.48 (12.2)	.53 (13.7)	0.28 (7.1)	600	0.57	1.4	2.8	5.7	6.8	6.8
3600	CD16FD362J03F	.48 (12.2)	.53 (13.7)	0.28 (7.1)	720	0.68	1.7	3.4	6.8	7.1	7.1
3900	CD16FD392J03F	.48 (12.2)	.54 (13.7)	0.28 (7.1)	780	0.74	1.8	3.7	7.4	7.4	7.4
4300	CD16FD432J03F	.48 (12.2)	.54 (13.7)	0.28 (7.1)	860	0.81	2.0	4.0	7.0	7.8	7.8
4700	CD16FD472J03F	.49 (12.5)	.56 (14.2)	0.31 (7.9)	940	0.89	2.2	4.4	8.5	8.5	8.5
5600	CD16FD562J03F	.49 (12.5)	.56 (14.2)	0.33 (8.4)	1100	1.1	2.6	5.3	9.0	9.0	9.0
6800	CD16FD682J03F	.50 (12.7)	.57 (14.7)	0.38 (9.7)	1300	1.3	3.2	6.4	9.0	9.0	9.0
7500	CD16FD752J03F	.50 (12.7)	.58 (14.7)	.40 (10.2)	1500	1.4	3.5	7.1	9.0	9.0	9.0
1,000 Vdc (350 Vac)											
100	CDV16FF101J03F	.43 (10.9)	.46 (11.7)	.15 (3.8)	23	0.022	0.055	0.11	0.22	0.55	0.92
120	CDV16FF121J03F	.43 (10.9)	.46 (11.7)	.15 (3.8)	27	0.026	0.066	0.13	0.26	0.66	1
130	CDV16FF131J03F	.43 (10.9)	.46 (11.7)	.15 (3.8)	29	0.029	0.071	0.14	0.29	0.71	1.1
150	CDV16FF151J03F	.43 (10.9)	.46 (11.7)	.15 (3.8)	34	0.033	0.082	0.16	0.33	0.82	1.1
180	CDV16FF181J03F	.43 (10.9)	.46 (11.7)	.15 (3.8)	41	0.04	0.10	0.2	0.4	1.0	1.2
200	CDV16FF201J03F	.43 (10.9)	.46 (11.7)	.15 (3.8)	45	0.044	0.11	0.22	0.44	1.1	1.3
220	CDV16FF221J03F	.43 (10.9)	.46 (11.7)	.15 (3.8)	50	0.048	0.12	0.24	0.48	1.2	1.4
240	CDV16FF241J03F	.43 (10.9)	.46 (11.7)	.15 (3.8)	54	0.053	0.13	0.26	0.53	1.3	1.4
270	CDV16FF271J03F	.45 (11.4)	.47 (11.9)	.16 (4.1)	61	0.059	0.15	0.3	0.59	1.5	1.6
300	CDV16FF301J03F	.45 (11.4)	.47 (11.9)	.16 (4.1)	68	0.066	0.16	0.33	0.7	1.6	1.7
330	CDV16FF331J03F	.45 (11.4)	.47 (11.9)	.16 (4.1)	74	0.073	0.18	0.36	0.73	1.8	1.8
360	CDV16FF361J03F	.45 (11.4)	.47 (11.9)	.16 (4.1)	81	0.079	0.2	0.4	0.79	1.8	1.8
390	CDV16FF391J03F	.45 (11.4)	.47 (11.9)	.16 (4.1)	88	0.086	0.21	0.43	0.86	1.9	1.9
420	CDV16FF421J03F	.45 (11.4)	.47 (11.9)	.16 (4.1)	95	0.092	0.23	0.46	0.92	2	2.0
430	CDV16FF431J03F	.45 (11.4)	.47 (11.9)	.16 (4.1)	97	0.095	0.24	0.47	0.95	2.0	2.0
470	CDV16FF471J03F	.45 (11.4)	.47 (11.9)	.16 (4.1)	106	0.1	0.26	0.52	1	2.1	2.1
500	CDV16FF501J03F	.45 (11.4)	.47 (11.9)	.16 (4.1)	113	0.11	0.27	0.55	1.1	2.2	2.2
510	CDV16FF511J03F	.45 (11.4)	.47 (11.9)	.16 (4.1)	115	0.11	0.28	0.56	1.1	2.2	2.2
560	CDV16FF561J03F	.46 (11.7)	.50 (12.7)	.17 (4.4)	126	0.12	0.31	0.62	1.2	2.4	2.4
620	CDV16FF621J03F	.46 (11.7)	.50 (12.7)	.17 (4.4)	140	0.14	0.34	0.68	1.4	2.5	2.5
680	CDV16FF681J03F	.46 (11.7)	.50 (12.7)	.17 (4.4)	153	0.15	0.37	0.75	1.5	2.7	2.7
750	CDV16FF751J03F	.46 (11.7)	.50 (12.7)	.17 (4.4)	169	0.16	0.41	0.82	1.6	2.8	2.8
820	CDV16FF821J03F	.46 (11.7)	.50 (12.7)	.17 (4.4)	185	0.18	0.45	0.9	1.8	2.9	2.9
910	CDV16FF911J03F	.46 (11.7)	.50 (12.7)	.17 (4.4)	205	0.2	0.5	1	2	3.1	3.1
1000	CDV16FF102J03F	.46 (11.7)	.50 (12.7)	.17 (4.4)	225	0.22	0.55	1.1	2.2	3.2	3.2
1200	CDV16FF122J03F	.46 (11.7)	.50 (12.7)	.17 (4.4)	270	0.26	0.66	1.3	2.6	3.5	3.5
1300	CDV16FF132J03F	.46 (11.7)	.50 (12.7)	.17 (4.4)	293	0.29	0.71	1.4	2.9	3.7	3.7
1500	CDV16FF152J03F	.46 (11.7)	.50 (12.7)	.18 (4.6)	338	0.33	0.82	1.6	3.3	3.9	3.9
1800*	CDV16FF182J03F	.47 (11.9)	.52 (13.2)	.25 (6.4)	495	0.4	0.99	2	4	4.8	4.8
2000	CDV16FF202J03F	.47 (11.9)	.52 (13.2)	.25 (6.4)	605	0.48	1.2	2.4	4.8	5.3	5.3
2200	CDV16FF222J03F	.47 (11.9)	.52 (13.2)	.25 (6.4)	605	0.48	1.2	2.4	4.8	5.3	5.3
2400	CDV16FF242J03F	.47 (11.9)	.52 (13.2)	.25 (6.4)	660	0.53	1.3	2.6	5.3	5.5	5.5
2700	CDV16FF272J03F	.47 (11.9)	.52 (13.2)	.25 (6.4)	743	0.59	1.5	3	5.8	5.8	5.8
3000	CDV16FF302J03F	.47 (11.9)	.52 (13.2)	.25 (6.4)	825	0.66	1.6	3.3	6.2	6.2	6.2

* Best RF performances is = to or < this cap rating.