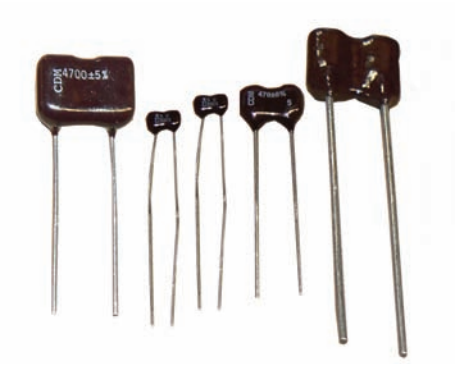
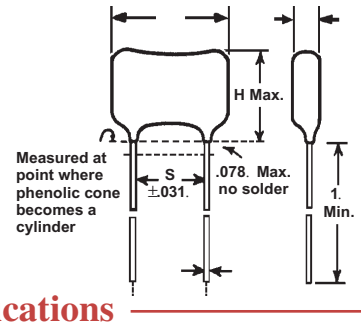
# Types CD17, CD18 & CDV18, High-Frequency, Mica Capacitors

## High-Frequency Capacitors for CATV and RF Applications



Types CD17 and CD18 assure controlled, resonance-free performance through 1 GHz. Insertion loss data is typically flat within ±0.1 dB over the entire frequency range, and is specified to be flat within ±0.2 dB. Interchangeable with the most popular, common mica capacitors, Type CD17 is available in the same case sizes and lead spacing as CD15; CD18, in the same case sizes and lead spacing as CD19, and CDV18, in the same as CDV19.




## Highlights

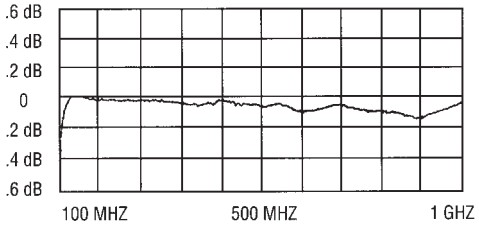
- Shockproof and delamination free
- Near zero capacitance change with (t), (V) and (f)
- Very high Q at UHF/VHF frequencies
- 0.0005 typical dissipation factor
- 100,000 V/µs dV/dt capability minimum
- Low, notch-free impedance to beyond 1 GHz
- Ultra low ESR for cool operation

## Specifications

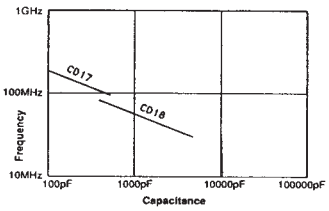
| | |
|---|---|
| **Voltage Range:** | 100 Vdc to 1,000 Vdc |
| **Capacitance Range:** | 1 pF to 5,100 pF |
| **Capacitance Tolerance:** | ±1⁄2 pF (D), ±1 pF (C), ±1⁄2% (E), ±1% (F), ±2% (G), ±5% (J) |
| **Temperature Range:** | –55 °C to +150 °C |

## Typical Perfomance Curves

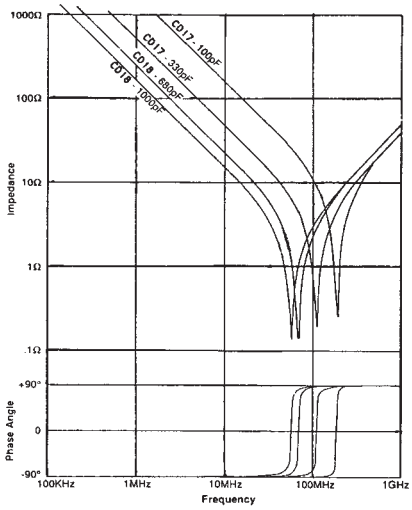
**Insertion Loss vs. Frequency for CD17FC621J03, 75 Ω System**



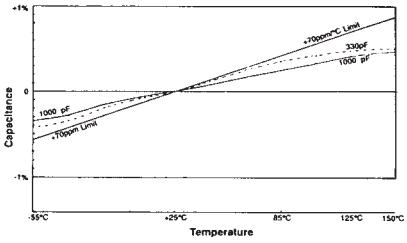

**Self-Resonant Frequency vs. Capacitance**



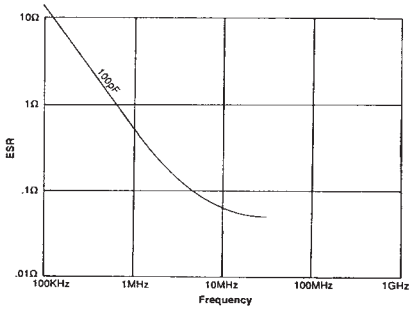

**Impedance and Phase Angle vs. Frequency**




**Capacitance Change vs. Temperature**




**ESR vs. Frequency**




**RoHS-5 Compliant**
Has more than 1000 ppm lead in some homogenous material but otherwise complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

# Types CD17, CD18 & CDV18, High-Frequency, Mica Capacitors

## Ratings

| Cap. (pF) | Catalog Part Number | Volt Rate | L in (mm) | H in (mm) | T in (mm) | S in (mm) | D in (mm) |
|---|---|---|---|---|---|---|---|
| 1 | CD17CD010DO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 2 | CD17CD020DO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 3 | CD17CD030DO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 4 | CD17CD040DO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 5 | CD17CD050DO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 6 | CD17CD060DO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 7 | CD17CD070DO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 8 | CD17CD080DO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 9 | CD17CD090DO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 10 | CD17CD100JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 12 | CD17CD120JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 15 | CD17CD150JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 18 | CD17CD180JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 20 | CD17ED200JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 22 | CD17ED220JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 24 | CD17ED240JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 27 | CD17ED270JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 27 | CDV18EF270JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 30 | CD17ED300JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 30 | CDV18EF300JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 33 | CD17ED330JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 33 | CDV18EF330JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 36 | CD17ED360JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 36 | CDV18EF360JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 39 | CD17ED390JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 39 | CDV18EF390JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 43 | CD17ED430JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 43 | CDV18EF430JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 47 | CD17ED470JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 47 | CDV18EF470JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 50 | CD17ED500JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 50 | CDV18EF500JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 51 | CD17ED510JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 51 | CDV18EF510JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 56 | CD17ED560JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 56 | CDV18EF560JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 62 | CD17ED620JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .170 (4.3) | .234 (5.9) | .025 (.6) |
| 62 | CDV18EF620JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 68 | CD17ED680JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .180 (4.6) | .234 (5.9) | .025 (.6) |
| 68 | CDV18EF680JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 75 | CD17ED750JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .180 (4.6) | .234 (5.9) | .025 (.6) |
| 75 | CDV18EF750JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 82 | CD17ED820JO3F | 500 | .450 (11.4) | .360 ( 9.1) | .180 (4.6) | .234 (5.9) | .025 (.6) |
| 82 | CDV18EF820JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 91 | CD17FD910JO3F | 500 | .460 (11.4) | .360 ( 9.1) | .180 (4.6) | .234 (5.9) | .025 (.6) |
| 91 | CDV18FF910JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 100 | CD17FD101JO3F | 500 | .460 (11.4) | .360 ( 9.1) | .180 (4.6) | .234 (5.9) | .025 (.6) |
| 100 | CDV18FF101JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 110 | CD17FD111JO3F | 500 | .460 (11.4) | .370 ( 9.4) | .180 (4.6) | .234 (5.9) | .025 (.6) |
| 110 | CDV18FF111JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 120 | CD17FD121JO3F | 500 | .460 (11.7) | .370 ( 9.4) | .180 (4.6) | .234 (5.9) | .025 (.6) |
| 120 | CDV18FF121JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 130 | CD17FD131JO3F | 500 | .460 (11.7) | .370 ( 9.4) | .180 (4.6) | .234 (5.9) | .025 (.6) |
| 130 | CDV18FF131JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 150 | CD17FD151JO3F | 500 | .460 (11.7) | .370 ( 9.4) | .190 (4.8) | .234 (5.9) | .025 (.6) |
| 150 | CDV18FF151JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 160 | CD17FD161JO3F | 500 | .460 (11.7) | .370 ( 9.4) | .190 (4.8) | .234 (5.9) | .025 (.6) |
| 160 | CDV18FF161JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 180 | CD17FD181JO3F | 500 | .460 (11.7) | .370 ( 9.4) | .190 (4.8) | .234 (5.9) | .025 (.6) |
| 180 | CDV18FF181JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 200 | CD17FD201JO3F | 500 | .460 (11.7) | .380 ( 9.7) | .190 (4.8) | .234 (5.9) | .025 (.6) |
| 200 | CDV18FF201JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 220 | CD17FD221JO3F | 500 | .460 (11.7) | .380 ( 9.7) | .200 (5.1) | .234 (5.9) | .025 (.6) |
| 220 | CDV18FF221JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 240 | CD17FD241JO3F | 500 | .460 (11.7) | .380 ( 9.7) | .200 (5.1) | .234 (5.9) | .025 (.6) |
| 240 | CDV18FF241JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 250 | CD17FD251JO3F | 500 | .470 (11.9) | .390 ( 9.9) | .210 (5.3) | .234 (5.9) | .025 (.6) |
| 270 | CD17FD271JO3F | 500 | .470 (11.9) | .390 ( 9.9) | .210 (5.3) | .234 (5.9) | .025 (.6) |
| 270 | CD18FD271JO3F | 500 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 270 | CDV18FF271JO3F | 1000 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 300 | CD17FD301JO3F | 500 | .470 (11.9) | .390 ( 9.9) | .210 (5.3) | .234 (5.9) | .025 (.6) |
| 300 | CD18FD301JO3F | 500 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 300 | CDV18FF301JO3F | 1000 | .650 (16.5) | .510 (13.0) | .200 (5.1) | .344 (8.7) | .032 (.8) |
| 330 | CD17FD331JO3F | 500 | .470 (11.9) | .390 ( 9.9) | .210 (5.3) | .234 (5.9) | .025 (.6) |
| 330 | CD18FD331JO3F | 500 | .640 (16.3) | .500 (12.7) | .190 (4.8) | .344 (8.7) | .032 (.8) |
| 330 | CDV18FF331JO3F | 1000 | .650 (16.5) | .510 (13.0) | .200 (5.1) | .344 (8.7) | .032 (.8) |
| 360 | CD17FD361JO3F | 500 | .470 (11.9) | .390 ( 9.9) | .210 (5.3) | .234 (5.9) | .025 (.6) |
| 360 | CD18FD361JO3F | 500 | .640 (16.3) | .510 (13.0) | .200 (5.1) | .344 (8.7) | .032 (.8) |
| 360 | CDV18FF361JO3F | 1000 | .650 (16.5) | .510 (13.0) | .200 (5.1) | .344 (8.7) | .032 (.8) |
| 390 | CD17FD391JO3F | 500 | .470 (11.9) | .390 ( 9.9) | .210 (5.3) | .234 (5.9) | .025 (.6) |
| 390 | CD18FD391JO3F | 500 | .640 (16.3) | .510 (13.0) | .200 (5.1) | .344 (8.7) | .032 (.8) |
| 390 | CDV18FF391JO3F | 1000 | .650 (16.5) | .510 (13.0) | .210 (5.3) | .344 (8.7) | .032 (.8) |
| 430 | CD17FD431JO3F | 500 | .470 (11.9) | .400 (10.2) | .220 (5.6) | .234 (5.9) | .025 (.6) |
| 430 | CD18FD431JO3F | 500 | .640 (16.3) | .510 (13.0) | .200 (5.1) | .344 (8.7) | .032 (.8) |
| 430 | CDV18FF431JO3F | 1000 | .650 (16.5) | .510 (13.0) | .210 (5.3) | .344 (8.7) | .032 (.8) |
| 470 | CD17FD471JO3F | 500 | .470 (11.9) | .400 (10.2) | .220 (5.6) | .234 (5.9) | .025 (.6) |
| 470 | CD18FD471JO3F | 500 | .640 (16.3) | .510 (13.0) | .200 (5.1) | .344 (8.7) | .032 (.8) |
| 470 | CDV18FF471JO3F | 1000 | .650 (16.5) | .510 (13.0) | .210 (5.3) | .344 (8.7) | .032 (.8) |
| 500 | CD17FD501JO3F | 500 | .470 (11.9) | .400 (10.2) | .220 (5.6) | .234 (5.9) | .025 (.6) |
| 500 | CD18FD501JO3F | 500 | .640 (16.3) | .510 (13.0) | .200 (5.1) | .344 (8.7) | .032 (.8) |
| 510 | CD17FD511JO3F | 500 | .470 (11.9) | .400 (10.2) | .220 (5.6) | .234 (5.9) | .025 (.6) |
| 510 | CD18FD511JO3F | 500 | .640 (16.3) | .510 (13.0) | .200 (5.1) | .344 (8.7) | .032 (.8) |
| 510 | CDV18FF511J03F | 1000 | .650 (16.5) | .510 (13.0) | .210 (5.3) | .344 (8.7) | .032 (.8) |
| 560 | CD17FC561JO3F | 300 | .460 (11.7) | .380 ( 9.7) | .210 (5.3) | .234 (5.9) | .025 (.6) |
| 560 | CD18FD561JO3F | 500 | .650 (16.5) | .510 (13.0) | .200 (5.1) | .344 (8.7) | .032 (.8) |
| 560 | CDV18FF561JO3F | 1000 | .650 (16.5) | .510 (13.0) | .210 (5.3) | .344 (8.7) | .032 (.8) |
| 620 | CD17FC621JO3F | 300 | .460 (11.7) | .380 ( 9.7) | .210 (5.3) | .234 (5.9) | .025 (.6) |
| 620 | CD18FD621JO3F | 500 | .650 (16.5) | .510 (13.0) | .200 (5.1) | .344 (8.7) | .032 (.8) |
| 620 | CDV18FF621JO3F | 1000 | .660 (16.8) | .520 (13.2) | .220 (5.6) | .344 (8.7) | .032 (.8) |
| 680 | CD17FC681JO3F | 300 | .470 (11.9) | .390 ( 9.9) | .210 (5.3) | .234 (5.9) | .025 (.6) |
| 680 | CD18FD681JO3F | 500 | .650 (16.5) | .510 (13.0) | .210 (5.3) | .344 (8.7) | .032 (.8) |
| 680 | CDV18FF681JO3F | 1000 | .660 (16.8) | .520 (13.2) | .220 (5.6) | .344 (8.7) | .032 (.8) |
| 750 | CD17FC751JO3F | 300 | .470 (11.9) | .390 ( 9.9) | .210 (5.3) | .234 (5.9) | .025 (.6) |
| 750 | CD18FD751JO3F | 500 | .650 (16.5) | .510 (13.0) | .210 (5.3) | .344 (8.7) | .032 (.8) |
| 750 | CDV18FF751JO3F | 1000 | .660 (16.8) | .530 (13.5) | .230 (5.8) | .344 (8.7) | .032 (.8) |
| 820 | CD17FC821JO3F | 300 | .470 (11.9) | .390 ( 9.9) | .210 (5.3) | .234 (5.9) | .025 (.6) |
| 820 | CD18FD821JO3F | 500 | .650 (16.5) | .510 (13.0) | .210 (5.3) | .344 (8.7) | .032 (.8) |
| 820 | CDV18FF821JO3F | 1000 | .660 (16.8) | .530 (13.5) | .230 (5.8) | .344 (8.7) | .032 (.8) |
| 910 | CD17FA911JO3F | 100 | .470 (11.9) | .390 ( 9.9) | .220 (5.6) | .234 (5.9) | .025 (.6) |
| 910 | CD18FD911JO3F | 500 | .650 (16.5) | .510 (13.0) | .210 (5.3) | .344 (8.7) | .032 (.8) |
| 1000 | CD17FA102JO3F | 100 | .480 (12.2) | .400 (10.2) | .230 (5.8) | .234 (5.9) | .025 (.6) |
| 1000 | CD18FD102JO3F | 500 | .650 (16.5) | .520 (13.2) | .220 (5.6) | .344 (8.7) | .032 (.8) |
| 1100 | CD17FA112JO3F | 100 | .490 (12.4) | .420 (10.7) | .240 (6.1) | .234 (5.9) | .025 (.6) |
| 1100 | CD18FD112JO3F | 500 | .650 (16.5) | .520 (13.2) | .220 (5.6) | .344 (8.7) | .032 (.8) |
| 1200 | CD17FA122JO3F | 100 | .490 (12.4) | .420 (10.7) | .240 (6.1) | .234 (5.9) | .025 (.6) |
| 1200 | CD18FD122JO3F | 500 | .660 (16.8) | .520 (13.2) | .220 (5.6) | .344 (8.7) | .032 (.8) |
| 1300 | CD18FD132JO3F | 500 | .660 (16.8) | .520 (13.2) | .220 (5.6) | .344 (8.7) | .032 (.8) |
| 1500 | CD17FA152JO3F | 100 | .500 (12.7) | .430 (10.9) | .250 (6.4) | .234 (5.9) | .025 (.6) |
| 1500 | CD18FD152JO3F | 500 | .660 (16.8) | .520 (13.2) | .230 (5.8) | .344 (8.7) | .032 (.8) |
| 1600 | CD18FD162JO3F | 500 | .660 (16.8) | .530 (13.5) | .230 (5.8) | .344 (8.7) | .032 (.8) |
| 1800 | CD18FD182JO3F | 500 | .670 (17.0) | .530 (13.5) | .240 (6.1) | .344 (8.7) | .032 (.8) |
| 2000 | CD18FD202JO3F | 500 | .670 (17.0) | .530 (13.5) | .240 (6.1) | .344 (8.7) | .032 (.8) |
| 2200 | CD18FD222JO3F | 500 | .670 (17.0) | .530 (13.5) | .250 (6.4) | .344 (8.7) | .032 (.8) |
| 2400 | CD18FD242JO3F | 500 | .670 (17.0) | .540 (13.7) | .260 (6.6) | .344 (8.7) | .032 (.8) |
| 2500 | CD18FD252JO3F | 500 | .680 (17.3) | .540 (13.7) | .260 (6.6) | .344 (8.7) | .032 (.8) |
| 2700 | CD18FD272JO3F | 500 | .680 (17.3) | .540 (13.7) | .270 (6.9) | .344 (8.7) | .032 (.8) |
| 3000 | CD18FD302JO3F | 500 | .680 (17.3) | .550 (14.0) | .280 (7.1) | .344 (8.7) | .032 (.8) |
| 3300 | CD18FD332JO3F | 500 | .680 (17.3) | .550 (14.0) | .290 (7.4) | .344 (8.7) | .032 (.8) |
| 3600 | CD18FD362JO3F | 500 | .680 (17.3) | .560 (14.2) | .300 (7.6) | .344 (8.7) | .032 (.8) |
| 3900 | CD18FD392JO3F | 500 | .690 (17.5) | .560 (14.2) | .310 (7.9) | .344 (8.7) | .032 (.8) |
| 4300 | CD18FD432JO3F | 500 | .690 (17.5) | .570 (14.5) | .330 (8.4) | .344 (8.7) | .032 (.8) |
| 4700 | CD18FD472JO3F | 500 | .700 (17.8) | .580 (14.7) | .350 (8.9) | .344 (8.7) | .032 (.8) |
| 5000 | CD18FD502JO3F | 500 | .710 (18.0) | .590 (15.0) | .370 (9.4) | .344 (8.7) | .032 (.8) |
| 5100 | CD18FD512JO3F | 500 | .710 (18.0) | .590 (15.0) | .370 (9.4) | .344 (8.7) | .032 (.8) |

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
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