

Type 715P/717P, Orange Drop[®], High Voltage, Polypropylene Film/Foil



Type 715P/717P are high AC voltage, film/foil polypropylene capacitors. Well suited for high AC voltage applications requiring corona free performance. These capacitors are ideal in high frequency, high pulse current applications and offer excellent stability, virtually linear temperature coefficient.

Highlights

- Very low dissipation factor
- High dV/dt rating

Specifications

| | |
|--------------------------------|--|
| Capacitance Range | 470 pF to .015 μ F |
| Capacitance Tolerance | \pm 1% to \pm 10% |
| Rated Voltage | 800/900 Vac (1800/2000 Vdc) |
| Operating Temperature Range | -55 $^{\circ}$ C to 85 $^{\circ}$ C +105 $^{\circ}$ C with proper voltage derating |
| Lead Wire | Tinned copper clad steel, .032" (0.8) diameter, #20 AWG |
| Corona Start Voltage (typical) | 800 Vac units: 950 - 1000 V RMS 900 Vac units: 1050 - 1100 V RMS |
| Dielectric | Polypropylene film; utilizing a floating common of metallized polypropylene, which provides self-healing characteristics |
| Construction | Non-inductively wound with extended foil, internal series section design |
| Encapsulations | Conformal coating of flame retardant orange epoxy (meets UL94V-0) |
| Insulation Resistance | 400,000 M Ω minimum at +25 $^{\circ}$ C 20,000 M Ω minimum at +85 $^{\circ}$ C 2,000 M Ω minimum at +105 $^{\circ}$ C |
| RoHS Compliant | |

Part Numbering System

Dimensions in inches, metric (mm) in parenthesis.

| | | | | | | | |
|--|--------------------|---|--------------------------|---|---|---|---------------|
| 715P/717P | 222 | 5 | 800 | L | B | 3 | (XXXX) |
| | | | | | | | |
| Series | Capacitance | Capacitance Tolerance | AC Voltage Rating | Case Code | Terminal | Lead Length | Suffix |
| 715P Round Profile 717P Pressed Profile | 222 = 2200 pF | 9 = \pm 10% 5 = \pm 5% 3 = \pm 3% 2 = \pm 2% 1 = \pm 1% | | A = Straight Lead B = Hairpin Crimp C = Captive Crimp * D = Hockey Stick Crimp | 1 = 0.187 (4.7) \pm 0.030 (0.8) 2 = 0.250 (6.4) \pm 0.030 (0.8) 3 = 1.250 (32) Minimum (Custom lead lengths available) | May be added by factory to denote special construction | |

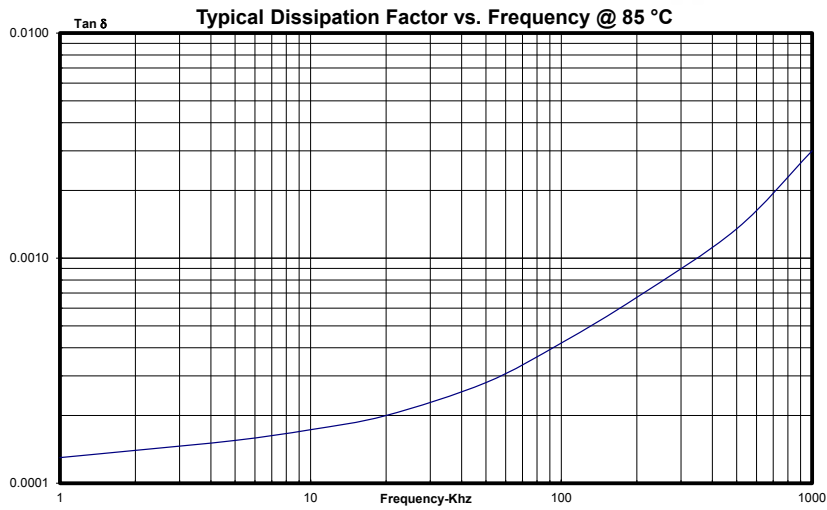
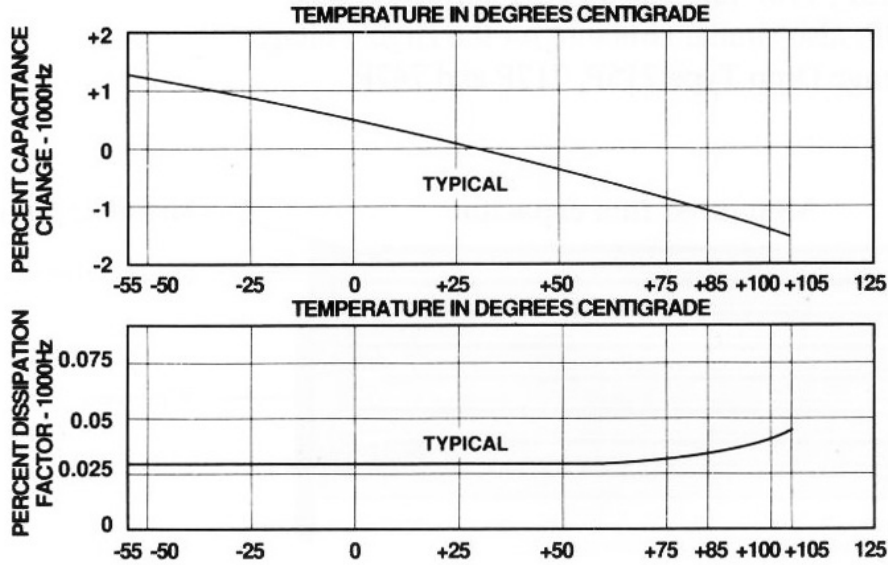
*Terminal C has a lead length of 0.156 (4.0) \pm 0.020 (0.5) therefore it is not necessary to indicate the lead length digit. The Captive Crimp is designed for circuit boards with hole sizes of .044 (1.1) to .048 (1.2) in diameter.

Type 715P/717P, Orange Drop[®], High Voltage, Polypropylene Film/Foil Ratings

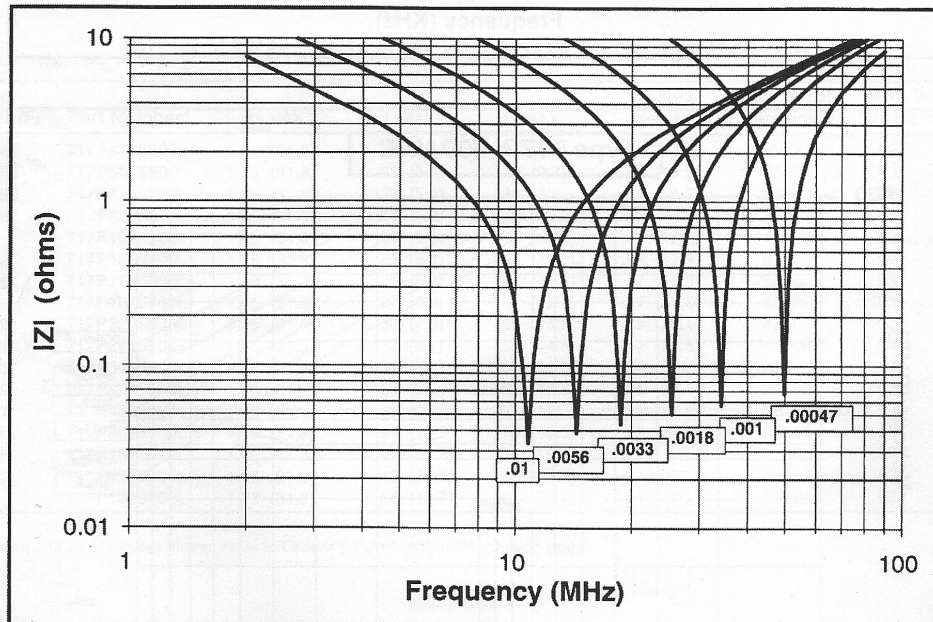
| Cap. (μ F) | Catalog Part Number | L Max | Dia Max | H Max | Seated Height | Max dV/dt (Volts/ μ sec) | Max % D.F. @ | |
|--|------------------------|--------------|------------|------------|------------------|---------------------------------|--------------|---------|
| | | | | | | | 20 KHz | 100 KHz |
| Type 715P, 800 Vac Standard Sizes/Ratings | | | | | | | | |
| 0.00047 | 715P4715800L | 1.125 (28.5) | .29 (7.4) | .35 (8.9) | .60 (15.3) | 95000 | 0.029 | 0.039 |
| 0.00056 | 715P5615800L | 1.125 (28.5) | .30 (7.6) | .36 (9.2) | .61 (15.5) | 87000 | 0.029 | 0.040 |
| 0.00068 | 715P6815800L | 1.125 (28.5) | .32 (8.1) | .37 (9.4) | .62 (15.8) | 79000 | 0.029 | 0.040 |
| 0.00082 | 715P8215800L | 1.125 (28.5) | .28 (7.1) | .33 (8.4) | .58 (14.7) | 72000 | 0.030 | 0.043 |
| 0.001 | 715P1025800L | 1.125 (28.5) | .28 (7.1) | .33 (8.4) | .58 (14.7) | 65000 | 0.030 | 0.043 |
| 0.0012 | 715P1225800L | 1.125 (28.5) | .29 (7.4) | .35 (8.9) | .60 (15.3) | 60000 | 0.030 | 0.044 |
| 0.0015 | 715P1525800L | 1.125 (28.5) | .31 (7.9) | .36 (9.2) | .61 (15.5) | 53000 | 0.030 | 0.044 |
| 0.0018 | 715P1825800L | 1.125 (28.5) | .32 (8.1) | .38 (9.7) | .63 (16.0) | 49000 | 0.030 | 0.044 |
| 0.0022 | 715P2225800L | 1.125 (28.5) | .34 (8.6) | .40 (10.2) | .65 (16.5) | 44000 | 0.030 | 0.045 |
| 0.0027 | 715P2725800L | 1.125 (28.5) | .36 (9.2) | .42 (10.7) | .67 (17.0) | 40000 | 0.030 | 0.045 |
| 0.0033 | 715P3325800L | 1.125 (28.5) | .38 (9.7) | .44 (11.2) | .69 (17.5) | 36000 | 0.031 | 0.046 |
| 0.0039 | 715P3925800L | 1.125 (28.5) | .41 (10.4) | .46 (11.7) | .71 (18.0) | 33000 | 0.031 | 0.046 |
| 0.0047 | 715P4725800L | 1.125 (28.5) | .43 (10.9) | .49 (12.5) | .74 (18.8) | 30000 | 0.031 | 0.047 |
| 0.0056 | 715P5625800L | 1.125 (28.5) | .46 (11.7) | .52 (13.2) | .77 (19.6) | 28000 | 0.031 | 0.048 |
| 0.0068 | 715P6825800L | 1.125 (28.5) | .49 (12.5) | .55 (14.0) | .80 (20.3) | 25000 | 0.031 | 0.049 |
| 0.0082 | 715P8225800L | 1.125 (28.5) | .53 (13.5) | .58 (14.7) | .83 (21.2) | 23000 | 0.031 | 0.051 |
| 0.01 | 715P1035800L | 1.125 (28.5) | .57 (14.5) | .63 (16.0) | .88 (22.4) | 21000 | 0.032 | 0.053 |
| 0.012 | 715P1235800L | 1.125 (28.5) | .61 (15.5) | .67 (17.0) | .92 (23.4) | 19000 | 0.032 | 0.055 |
| 0.015 | 715P1535800L | 1.125 (28.5) | .67 (17.0) | .72 (18.3) | .97 (24.6) | 17000 | 0.033 | 0.058 |
| Type 717P, 800 Vac Standard Sizes/Ratings | | | | | | | | |
| 0.00047 | 717P4715800L | 1.125 (28.5) | .21 (5.4) | .39 (9.9) | .64 (16.3) | 95000 | 0.029 | 0.039 |
| 0.00056 | 717P5615800L | 1.125 (28.5) | .22 (5.6) | .40 (10.2) | .65 (16.5) | 87000 | 0.029 | 0.040 |
| 0.00068 | 717P6815800L | 1.125 (28.5) | .24 (6.1) | .42 (10.7) | .67 (17.0) | 79000 | 0.029 | 0.040 |
| 0.00082 | 717P8215800L | 1.125 (28.5) | .20 (5.1) | .38 (9.7) | .63 (16.0) | 72000 | 0.030 | 0.043 |
| 0.001 | 717P1025800L | 1.125 (28.5) | .20 (5.1) | .38 (9.7) | .63 (16.0) | 65000 | 0.030 | 0.043 |
| 0.0012 | 717P1225800L | 1.125 (28.5) | .21 (5.4) | .39 (9.9) | .64 (16.3) | 60000 | 0.030 | 0.044 |
| 0.0015 | 717P1525800L | 1.125 (28.5) | .31 (7.9) | .41 (10.4) | .66 (16.8) | 53000 | 0.030 | 0.044 |
| 0.0018 | 717P1825800L | 1.125 (28.5) | .23 (5.9) | .42 (10.7) | .67 (17.0) | 49000 | 0.030 | 0.044 |
| 0.0022 | 717P2225800L | 1.125 (28.5) | .24 (6.1) | .45 (11.4) | .70 (17.8) | 44000 | 0.030 | 0.045 |
| 0.0027 | 717P2725800L | 1.125 (28.5) | .25 (6.4) | .47 (11.9) | .72 (18.3) | 40000 | 0.030 | 0.045 |
| 0.0033 | 717P3325800L | 1.125 (28.5) | .27 (6.9) | .50 (12.7) | .75 (19.1) | 36000 | 0.031 | 0.046 |
| 0.0039 | 717P3925800L | 1.125 (28.5) | .29 (7.4) | .55 (14.0) | .80 (20.3) | 33000 | 0.031 | 0.046 |
| 0.0047 | 717P4725800L | 1.125 (28.5) | .29 (7.4) | .57 (14.5) | .82 (20.8) | 30000 | 0.031 | 0.047 |
| 0.0056 | 717P5625800L | 1.125 (28.5) | .32 (8.1) | .60 (15.3) | .85 (21.6) | 28000 | 0.031 | 0.048 |
| 0.0068 | 717P6825800L | 1.125 (28.5) | .34 (8.6) | .63 (16.0) | .88 (22.4) | 25000 | 0.031 | 0.049 |
| 0.0082 | 717P8225800L | 1.125 (28.5) | .38 (9.7) | .69 (17.5) | .94 (23.9) | 23000 | 0.031 | 0.051 |
| 0.01 | 717P1035800L | 1.125 (28.5) | .43 (10.9) | .73 (18.5) | .98 (24.9) | 21000 | 0.032 | 0.053 |
| 0.012 | 717P1235800L | 1.125 (28.5) | .44 (11.2) | .79 (20.1) | 1.04 (26.4) | 19000 | 0.032 | 0.055 |
| 0.015 | 717P1535800L | 1.125 (28.5) | .50 (12.7) | .85 (21.6) | 1.10 (27.9) | 17000 | 0.033 | 0.058 |

Type 715P/717P, Orange Drop[®], High Voltage, Polypropylene Film/Foil

800 Vac Performance Characteristics



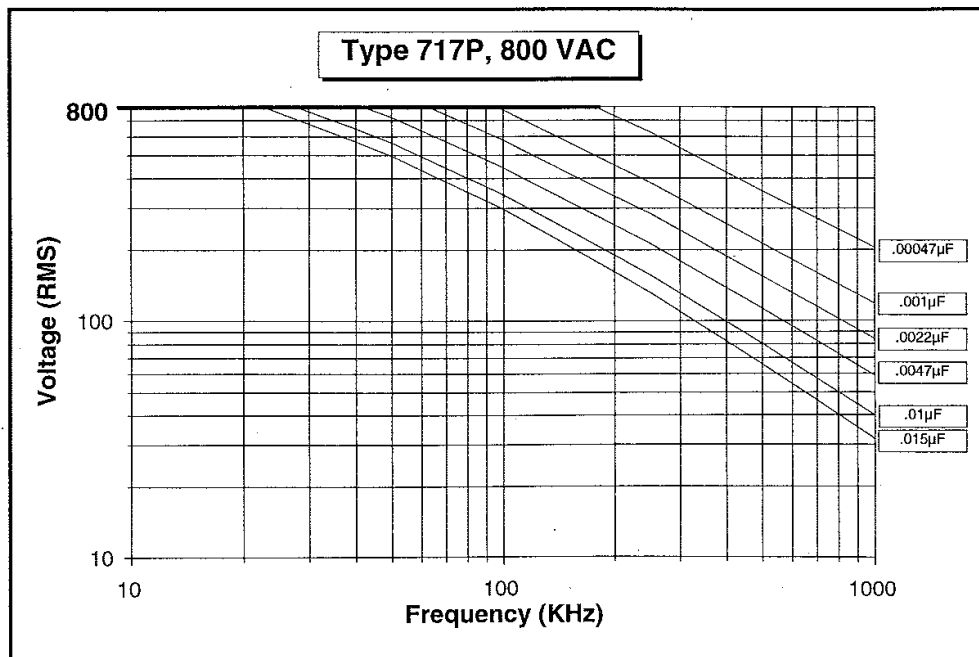
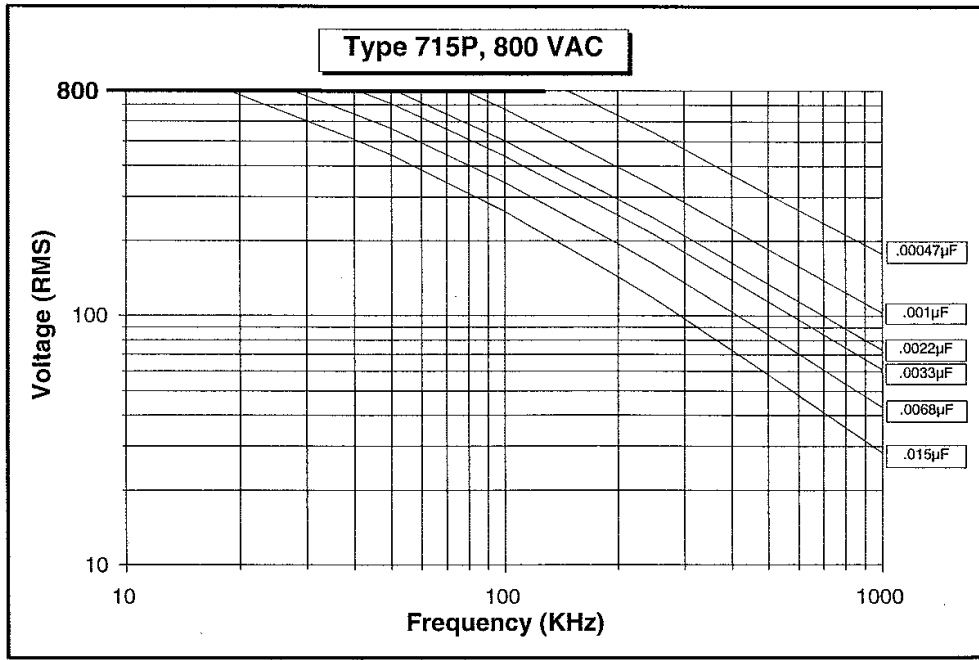
Typical Impedance vs. Frequency



Type 715P/717P, Orange Drop®, High Voltage, Polypropylene Film/Foil

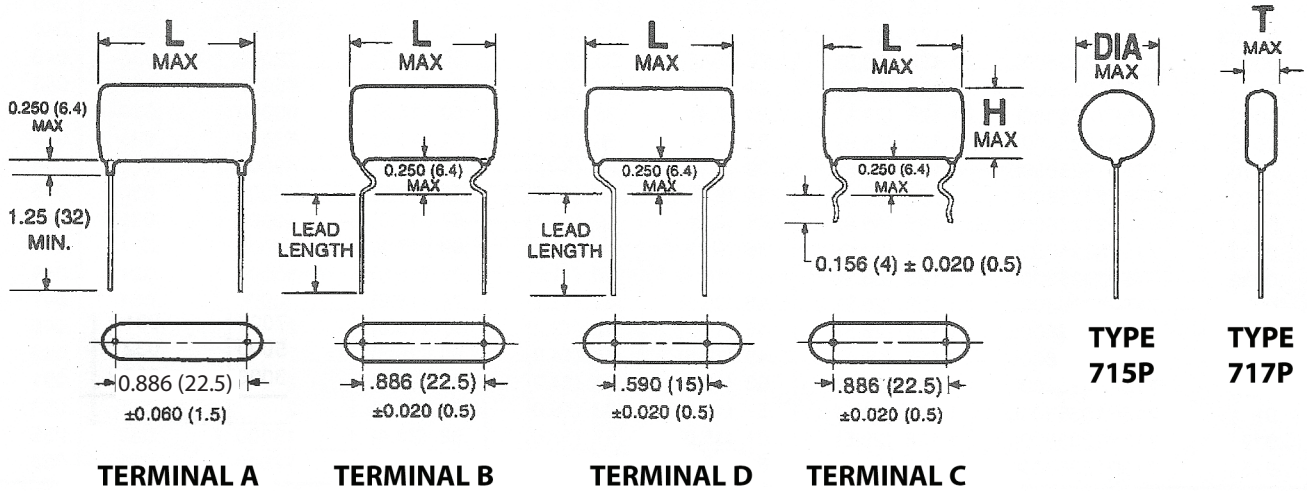
800 Vac Performance Characteristics

RMS Voltage vs. Frequency @ +85 °C



Type 715P/717P, Orange Drop®, High Voltage, Polypropylene Film/Foil

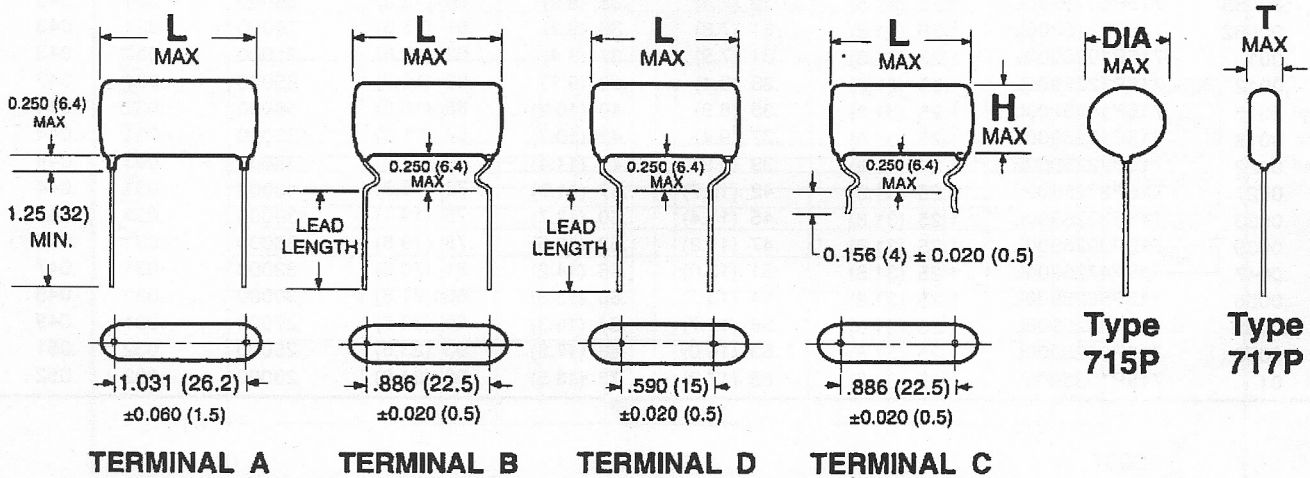
Standard Lead Styles/Lead Spacing 800 Vac



Standard Marking Format

| Sample Marking on unit | Description | Tolerance codes per EIA standards |
|------------------------|--|-----------------------------------|
| CDE | CDE Electronics identification | F ±1% |
| CDE715P800VAC | 715P Type number | G ±2% |
| 222J 9810 | 800VAC AC Voltage rating, Volts | H ±3% |
| | 222J Capacitance and tolerance code | J ±5% |
| | 9810 Weekly date code (i.e. 10th wk of 1998) | K ±10% |

Standard Lead Styles/Lead Spacing 900 Vac



Standard Marking Format

| Sample Marking on unit | Description | Tolerance codes per EIA standards |
|------------------------|--|-----------------------------------|
| CDE | CDE Electronics identification | F ±1% |
| CDE715P900VAC | 715P Type number | G ±2% |
| 222J 9810 | 900VAC AC Voltage rating, Volts | H ±3% |
| | 222J Capacitance and tolerance code | J ±5% |
| | 9810 Weekly date code (i.e. 10th wk of 1998) | K ±10% |

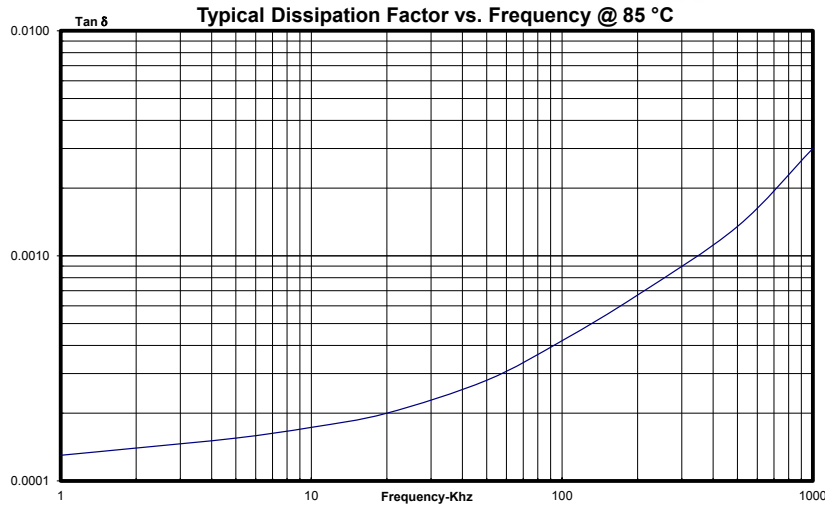
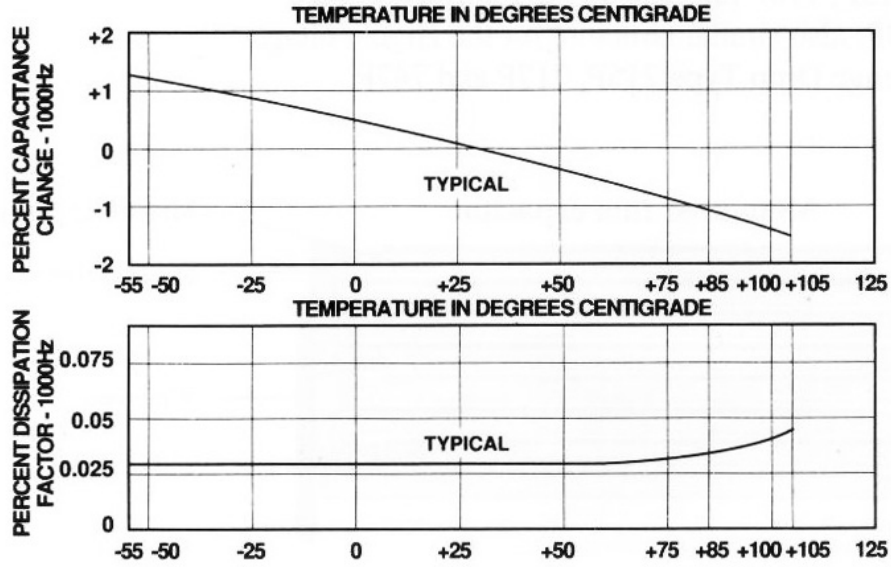
Type 715P/717P, Orange Drop®, High Voltage, Polypropylene Film/Foil

Ratings

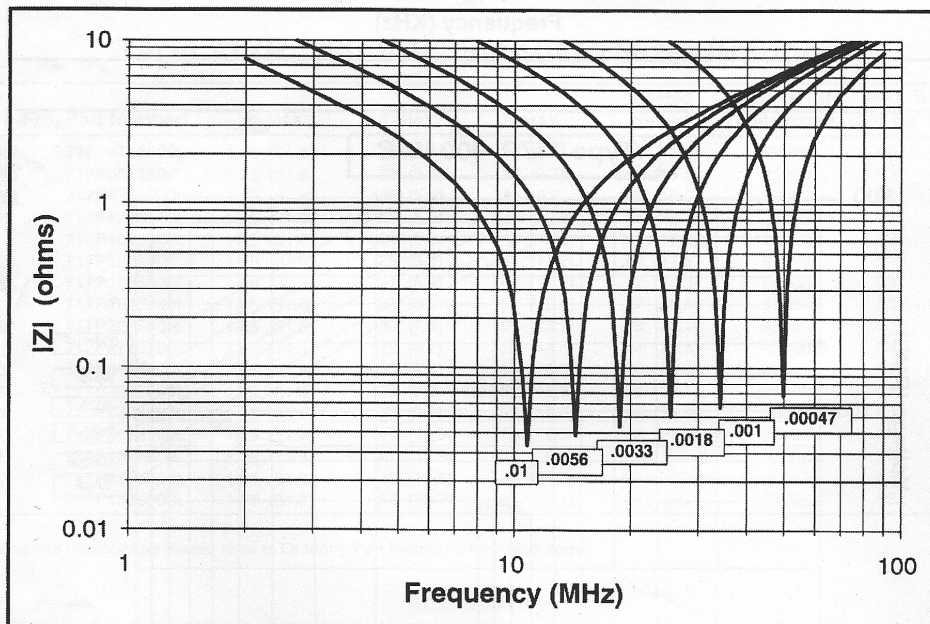
| Cap. (µF) | Catalog Part Number | L Max | Dia Max | H Max | Seated Height | Max dV/dt (Volts/µsec) | Max % D.F. @ | |
|--|------------------------|-------------|------------|------------|------------------|---------------------------|--------------|---------|
| | | | | | | | 20 KHz | 100 KHz |
| Type 715P, 900 Vac Standard Sizes/Ratings | | | | | | | | |
| 0.00047 | 715P4715900L | 1.25 (31.8) | .27 (6.9) | .33 (8.4) | .58 (14.8) | 104000 | 0.031 | 0.043 |
| 0.00056 | 715P5615900L | 1.25 (31.8) | .28 (7.1) | .34 (8.7) | .59 (15.0) | 95000 | 0.031 | 0.043 |
| 0.00068 | 715P6815900L | 1.25 (31.8) | .29 (7.4) | .35 (8.9) | .60 (15.3) | 86000 | 0.031 | 0.043 |
| 0.00082 | 715P8215900L | 1.25 (31.8) | .31 (7.9) | .36 (9.2) | .61 (15.5) | 78000 | 0.031 | 0.043 |
| 0.001 | 715P1025900L | 1.25 (31.8) | .31 (7.9) | .37 (9.4) | .62 (15.8) | 71000 | 0.031 | 0.043 |
| 0.0012 | 715P1225900L | 1.25 (31.8) | .33 (8.4) | .38 (9.7) | .63 (16.0) | 65000 | 0.031 | 0.043 |
| 0.0015 | 715P1525900L | 1.25 (31.8) | .35 (8.9) | .40 (10.2) | .65 (16.5) | 58000 | 0.031 | 0.044 |
| 0.0018 | 715P1825900L | 1.25 (31.8) | .37 (9.4) | .42 (10.7) | .67 (17.0) | 53000 | 0.031 | 0.044 |
| 0.0022 | 715P2225900L | 1.25 (31.8) | .39 (9.9) | .45 (11.4) | .69 (17.5) | 48000 | 0.031 | 0.044 |
| 0.0027 | 715P2725900L | 1.25 (31.8) | .42 (10.7) | .47 (11.9) | .70 (17.8) | 43000 | 0.031 | 0.044 |
| 0.0033 | 715P3325900L | 1.25 (31.8) | .45 (11.4) | .50 (12.7) | .72 (18.3) | 39000 | 0.031 | 0.046 |
| 0.0039 | 715P3925900L | 1.25 (31.8) | .47 (11.9) | .53 (13.5) | .75 (19.1) | 36000 | 0.031 | 0.046 |
| 0.0047 | 715P4725900L | 1.25 (31.8) | .51 (13.0) | .56 (14.2) | .81 (20.6) | 33000 | 0.031 | 0.047 |
| 0.0056 | 715P5625900L | 1.25 (31.8) | .54 (13.7) | .60 (15.3) | .85 (21.6) | 30000 | 0.031 | 0.048 |
| 0.0068 | 715P6825900L | 1.25 (31.8) | .58 (14.7) | .64 (16.3) | .89 (22.6) | 27000 | 0.031 | 0.049 |
| 0.0082 | 715P8225900L | 1.25 (31.8) | .63 (16.0) | .69 (17.5) | .93 (23.6) | 25000 | 0.032 | 0.051 |
| 0.01 | 715P1035900L | 1.25 (31.8) | .68 (17.3) | .73 (18.5) | .98 (24.9) | 23000 | 0.032 | 0.053 |
| Type 717P, 900 Vac Standard Sizes/Ratings | | | | | | | | |
| 0.00047 | 717P4715900L | 1.25 (31.8) | .20 (5.1) | .37 (9.4) | .62 (15.8) | 104000 | 0.031 | 0.043 |
| 0.00056 | 717P5615900L | 1.25 (31.8) | .21 (5.4) | .38 (9.7) | .63 (16.0) | 95000 | 0.031 | 0.043 |
| 0.00068 | 717P6815900L | 1.25 (31.8) | .23 (5.9) | .39 (9.9) | .64 (16.3) | 86000 | 0.031 | 0.043 |
| 0.00082 | 717P8215900L | 1.25 (31.8) | .23 (5.9) | .40 (10.2) | .65 (16.5) | 78000 | 0.031 | 0.043 |
| 0.001 | 717P1025900L | 1.25 (31.8) | .23 (5.9) | .43 (10.9) | .68 (17.3) | 71000 | 0.031 | 0.043 |
| 0.0012 | 717P1225900L | 1.25 (31.8) | .25 (6.4) | .44 (11.2) | .69 (17.5) | 65000 | 0.031 | 0.043 |
| 0.0015 | 717P1525900L | 1.25 (31.8) | .27 (6.9) | .47 (11.9) | .72 (18.3) | 58000 | 0.031 | 0.044 |
| 0.0018 | 717P1825900L | 1.25 (31.8) | .27 (6.9) | .52 (13.2) | .77 (19.6) | 53000 | 0.031 | 0.044 |
| 0.0022 | 717P2225900L | 1.25 (31.8) | .30 (7.6) | .54 (13.7) | .79 (20.1) | 48000 | 0.031 | 0.044 |
| 0.0027 | 717P2725900L | 1.25 (31.8) | .32 (7.6) | .57 (14.5) | .82 (20.8) | 43000 | 0.031 | 0.044 |
| 0.0033 | 717P3325900L | 1.25 (31.8) | .33 (8.4) | .63 (16.0) | .88 (22.4) | 39000 | 0.031 | 0.046 |
| 0.0039 | 717P3925900L | 1.25 (31.8) | .36 (9.2) | .66 (16.8) | .91 (23.1) | 36000 | 0.031 | 0.046 |
| 0.0047 | 717P4725900L | 1.25 (31.8) | .39 (9.9) | .69 (17.5) | .94 (23.9) | 33000 | 0.031 | 0.047 |
| 0.0056 | 717P5625900L | 1.25 (31.8) | .43 (10.9) | .73 (18.5) | .98 (24.9) | 30000 | 0.031 | 0.048 |
| 0.0068 | 717P6825900L | 1.25 (31.8) | .47 (11.9) | .78 (19.8) | 1.03 (26.2) | 27000 | 0.031 | 0.049 |
| 0.0082 | 717P8225900L | 1.25 (31.8) | .49 (12.5) | .85 (23.1) | 1.10 (27.9) | 25000 | 0.032 | 0.051 |
| 0.01 | 717P1035900L | 1.25 (31.8) | .54 (13.7) | .91 (23.1) | 1.16 (29.5) | 23000 | 0.032 | 0.053 |

Type 715P/717P, Orange Drop®, High Voltage, Polypropylene Film/Foil

900 Vac Performance Characteristics



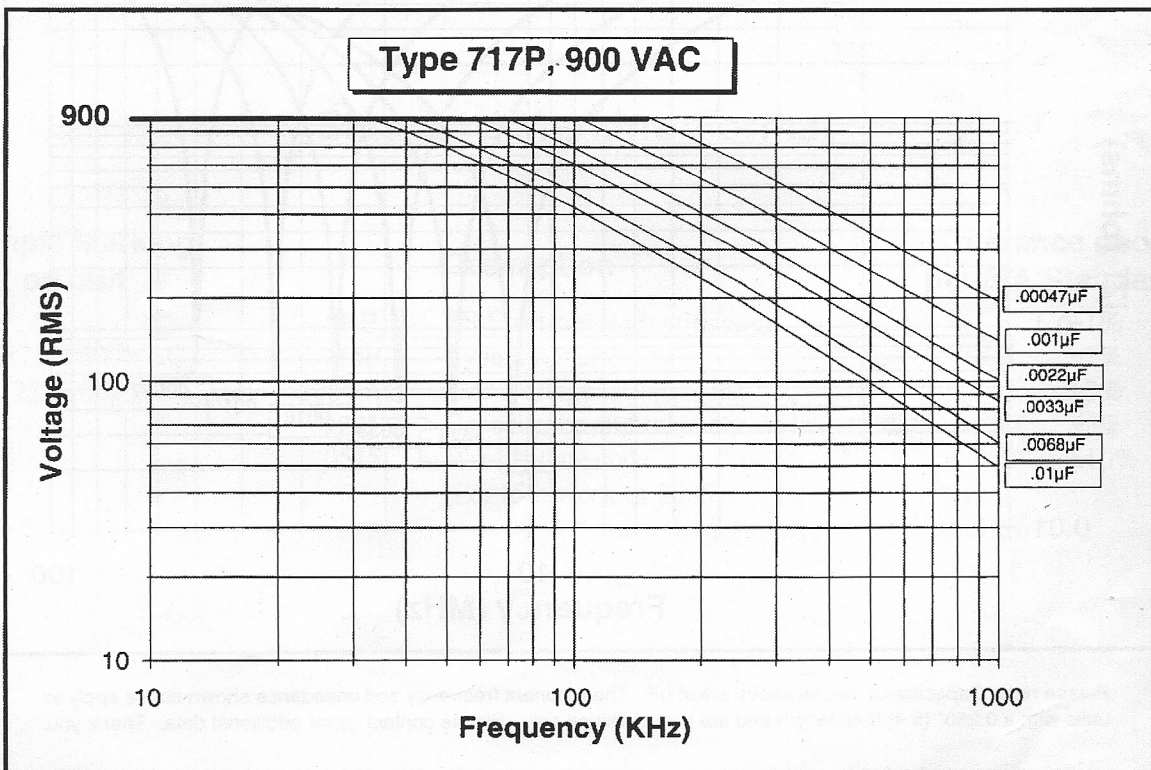
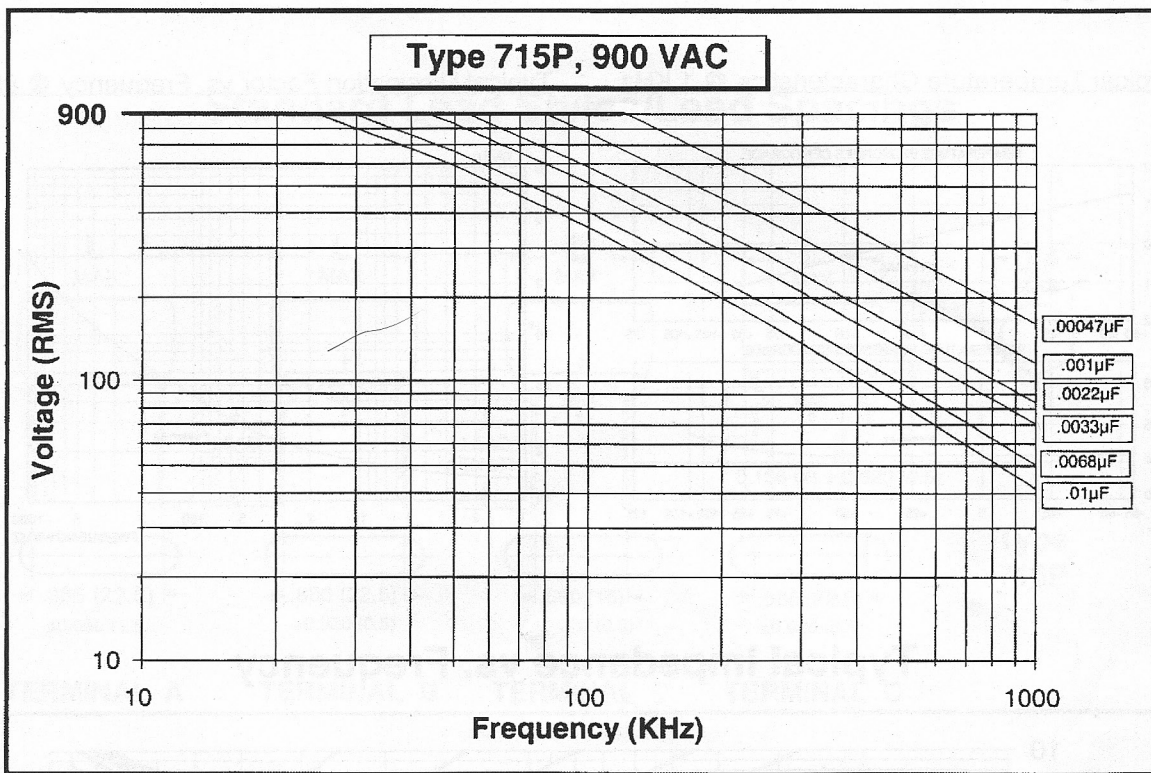
Typical Impedance vs. Frequency



Type 715P/717P, Orange Drop®, High Voltage, Polypropylene Film/Foil

900 Vac Performance Characteristics

RMS Voltage vs. Frequency @ 85 °C



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».



JONHON

«**JONHON**» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«**FORSTAR**» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А