High-Voltage Types Application Guide, Transmitting Mica

Types 271, 272, 273 — Rectangular Case, High-Current and High-Voltage Circuits

Types 271, 272, 273 are designed for frequencies ranging from 100 kHz to 3 MHz and are well suited for high-current and high-voltage radio transmitter circuit applications. Cast in rectangular cases, these capacitors are electrically equivalent to MIL-C-5 Styles CM65 through CM73 in capacitance and current ratings, but are far superior in environmental capability, temperature range, physical size, mounting configuration and reliability.

Highlights

- Type 273 permits stand-off mounting
- Highly shock resistant
- Optional aluminum mounting plates
- Convenient mounting
- Cast in rectangular cases

Specifications

Capacitance Range	47 pF to 0.1 µF
Capacitance Tolerance	±5% (J)
Rated Voltage	1 to 60 kVpk
Operating Temperature Range with Ripple	–55 °C to 125 °C

Type 271 Ratings

Cap (pF)	Catalog Part Number	Maximum AC Current at 65 °C 3 MHz (A)	1 MHz (A)	300 kHz (A)	100 kHz (A)
250 Peak Volts					
47000	27102B473JO0	11.0	11.0	9.1	4.7
50000	27102B503JO0	11.0	11.0	9.1	4.7
51000	27102B513JO0	11.0	11.0	9.1	4.7
56000	27102B563JO0	11.0	11.0	9.1	4.7
62000	27102B623JO0	11.0	11.0	9.1	5.1
68000	27102B683JO0	11.0	11.0	9.1	5.1
75000	27102B753JO0	11.0	11.0	9.1	5.1
82000	27102B823JO0	11.0	11.0	9.1	5.1
91000	27102B913JO0	11.0	11.0	9.1	5.6
100000	27102B104JO0	11.0	11.0	9.1	5.6
500 Peak Volts					
27000	27105B273JO0	11.0	11.0	7.5	3.9
30000	27105B303JO0	11.0	11.0	8.2	3.9
33000	27105B333JO0	11.0	11.0	8.2	4.3
36000	27105B363JO0	11.0	11.0	8.2	4.3
39000	27105B393JO0	11.0	11.0	8.2	4.3
43000	27105B433JO0	11.0	11.0	9.1	4.7
1000 Peak Volts					
10000	27110B103JO0	10.0	9.1	5.1	2.4
11000	27110B113JO0	11.0	10.0	5.6	2.7
12000	27110B123JO0	11.0	10.0	6.2	3.0
13000	27110B133JO0	11.0	11.0	6.8	3.0
15000	27110B153JO0	11.0	11.0	6.8	3.3
16000	27110B163JO0	11.0	11.0	6.8	3.3
18000	27110B183JO0	11.0	11.0	7.5	3.3
20000	27110B203JO0	11.0	11.0	7.5	3.6
22000	27110B223JO0	11.0	11.0	7.5	3.6
24000	27110B243JO0	11.0	11.0	7.5	3.6

Cap (pF)	Catalog Part Number	Maximum AC Current at 65 °C 3 MHz (A)	1 MHz (A)	300 kHz (A)	100 kHz (A)
1500 Peak Volts					
8000	27115B802JO0	10.0	8.2	4.7	2.2
8200	27115B822JO0	10.0	8.2	4.7	2.2
9100	27115B912JO0	10.0	8.2	4.7	2.4
2700	27120B272JO0	6.8	5.1	2.7	1.3
2000 Peak Volts					
3000	27120B302JO0	7.5	5.1	3.0	1.3
3300	27120B332JO0	7.5	5.6	3.0	1.5
3600	27120B362JO0	7.5	5.6	3.3	1.5
3900	27120B392JO0	8.2	6.2	3.3	1.6
4000	27120B402JO0	8.2	6.2	3.3	1.6
4300	27120B432JO0	8.2	6.2	3.6	1.6
4700	27120B472JO0	8.2	6.8	3.6	1.8
5000	27120B502JO0	8.2	6.8	3.6	1.8
5100	27120B512JO0	8.2	6.8	3.6	1.8
5600	27120B562JO0	9.1	7.5	3.9	2.0
6000	27120B602JO0	9.1	7.5	4.3	2.0
6200	27120B622JO0	9.1	7.5	4.3	2.0
6800	27120B682JO0	10.0	7.5	4.3	2.0
7500	27120B752JO0	10.0	8.2	4.7	2.2
3000 Peak Volts					
47	27130B470JO0	1.2	0.5	0.2	0.1
51	27130B510JO0	1.3	0.5	0.2	0.1
56	27130B560JO0	1.3	0.6	0.2	0.1
62	27130B620JO0	1.5	0.6	0.2	0.1
68	27130B680JO0	1.5	0.6	0.2	0.1
75	27130B750JO0	1.5	0.6	0.3	0.1
82	27130B820JO0	1.6	0.7	0.3	0.1
91	27130B910JO0	1.6	0.7	0.3	0.1

Type 271 Ratings

Cap (pF)	Catalog Part Number	Maximum AC Current at 65 °C 3 MHz (A)	1 MHz (A)	300 kHz (A)	100 kHz (A)
3000 Peak Volts					
100	27105B273JO0	11.0	11.0	7.5	3.9
110	27130B111JO0	1.8	0.8	0.4	0.1
120	27130B121JO0	2.0	0.9	0.4	0.2
130	27130B131JO0	2.0	0.9	0.4	0.2
150	27130B151JO0	2.2	1.0	0.5	0.2
160	27130B161JO0	2.2	1.1	0.5	0.2
180	27130B181JO0	2.4	1.1	0.6	0.2
200	27130B201JO0	2.4	1.2	0.6	0.2
220	27130B221JO0	2.7	1.3	0.6	0.3
240	27130B241JO0	2.7	1.3	0.7	0.3
250	27130B251JO0	2.7	1.3	0.7	0.3
270	27130B271JO0	3.1	1.5	0.8	0.3
300	27130B301JO0	3.0	1.5	0.8	0.4
330	27130B331JO0	3.0	1.6	0.8	0.4
360	27130B361JO0	3.3	1.6	0.9	0.4
390	27130B391JO0	3.3	1.8	0.9	0.4
430	27130B431JO0	3.6	1.8	1.0	0.5
470	27130B471JO0	3.6	2.0	1.1	0.5
500	27130B501JO0	3.6	2.0	1.1	0.5
510	27130B511JO0	3.6	2.0	1.1	0.5
560	27130B561JO0	3.9	2.2	1.2	0.5
620	27130B621JO0	3.9	2.4	1.2	0.6
680	27130B681JO0	4.3	2.4	1.3	0.6
750	27130B751JO0	4.3	2.7	1.3	0.6
820	27130B821JO0	4.3	2.7	1.5	0.7
910	27130B911JO0	4.7	3.0	1.5	0.7
1000	27130B102JO0	4.7	3.0	1.6	0.8
1100	27130B112JO0	5.1	3.3	1.6	0.8
1200	27130B122JO0	5.1	3.3	1.8	0.8
1300	27130B132JO0	5.6	3.6	1.8	0.9
1500	27130B152JO0	5.6	3.9	2.0	0.9
1600	27130B162JO0	5.6	3.9	2.0	1.0
1800	27130B182JO0	6.2	4.3	2.2	1.1
2000	27130B202JO0	6.2	4.3	2.4	1.1
2200	27130B222JO0	6.8	4.7	2.4	1.2

Type 272 Ratings

Cap (pF)	Catalog Part Number	Maximum AC Current at 65 °C 3 MHz (A)	1 MHz (A)	300 kHz (A)	100 kHz (A)
250 Peak Volts					
250000	27202B254J00	15.0	18.0	15.0	8.2
500 Peak Volts					
82000	27205B823JO0	15.0	18.0	15.0	8.2
91000	27205B913JO0	15.0	18.0	15.0	8.2
100000	27205B104JO0	15.0	18.0	15.0	8.2
200000	27205B204JO0	15.0	18.0	15.0	8.2
1000 Peak Volts					
56000	27210B563JO0	15.0	16.0	15.0	8.2
62000	27210B623JO0	15.0	18.0	15.0	8.2
68000	27210B683JO0	15.0	18.0	15.0	8.2
75000	27215B333JO0	15.0	18.0	15.0	8.2
1500 Peak Volts					
24000	27215B243JO0	13.0	15.0	12.0	6.8
27000	27215B273JO0	13.0	15.0	12.0	6.8
30000	27215B303JO0	13.0	15.0	12.0	6.8
33000	27215B333JO0	13.0	15.0	13.0	7.5
36000	27215B363JO0	13.0	16.0	13.0	7.5
39000	27215B393JO0	15.0	16.0	13.0	7.5
43000	27215B433JO0	15.0	16.0	13.0	7.5
47000	27215B473JO0	15.0	16.0	13.0	7.5
50000	27215B503JO0	15.0	16.0	15.0	7.5
51000	27215B513JO0	15.0	16.0	15.0	7.5
2000 Peak Volts					
8200	27220B822JO0	10.0	10.0	7.5	3.9
9100	27220B912JO0	11.0	10.0	8.2	4.3
10000	27220B103JO0	11.0	11.0	8.2	4.3
11000	27220B113JO0	11.0	11.0	8.2	4.7
12000	27220B123JO0	11.0	11.0	9.1	4.7
13000	27220B133JO0	12.0	12.0	9.1	5.1
15000	27220B153JO0	12.0	12.0	10.0	5.1
16000	27220B163JO0	12.0	12.0	10.0	5.6
18000	27220B183JO0	12.0	13.0	10.0	5.6
20000	27220B203JO0	13.0	13.0	11.0	6.2
22000	27220B223JO0	13.0	13.0	11.0	6.2
3000 Peak Volts					
2700	27230B272JO0	8.2	6.8	4.3	2.2
3000	27230B302JO0	8.2	6.8	4.7	2.2
3300	27230B332JO0	8.2	6.8	4.7	2.4
3600	27230B362JO0	8.2	7.5	5.1	2.4
3900	27230B392JO0	9.1	7.5	5.6	2.7
4300	27230B432JO0	9.1	7.5	5.6	2.7
4700	27230B472JO0	9.1	8.2	6.2	3.0
5000	27230B502JO0	9.1	8.2	6.2	3.0

Type 272 Ratings

Cap (pF)	Catalog Part Number	Maximum AC Current at 65 °C 3 MHz (A)	1 MHz (A)	300 kHz (A)	100 kHz (A)
3000 Peak Volts					
5100	27230B512JO0	9.1	8.2	6.2	3.0
5600	27230B562JO0	9.1	9.1	6.2	3.3
6000	27230B602JO0	10.0	9.1	6.8	3.6
6200	27230B622JO0	10.0	9.1	6.8	3.6
6800	27230B682JO0	10.0	9.1	6.8	3.6
7500	27230B752JO0	10.0	9.1	6.8	3.9
5000 Peak Volts					
47	27250B470JO0	1.5	0.6	0.2	0.1
51	27250B510JO0	1.6	0.7	0.2	0.1
56	27250B560JO0	1.8	0.8	0.3	0.1
62	27250B620JO0	1.8	0.8	0.3	0.1
68	27250B680JO0	2.0	0.9	0.3	0.1
75	27250B750JO0	2.0	1.0	0.4	0.1
82	27250B820JO0	2.2	1.1	0.4	0.1
91	27250B910JO0	2.4	1.2	0.4	0.1
100	27250B101JO0	2.4	1.2	0.4	0.1
110	27250B111JO0	2.7	1.3	0.5	0.2
120	27250B121JO0	2.7	1.5	0.6	0.2
130	27250B131JO0	3.0	1.6	0.6	0.2
150	27250B151JO0	3.3	1.8	0.7	0.2
160	27250B161JO0	3.3	1.8	0.8	0.3
180	27250B181JO0	3.3	2.0	0.8	0.3
200	27250B201JO0	3.6	2.0	0.8	0.3
220	27250B221JO0	3.6	2.2	0.9	0.4
240	27250B241JO0	3.6	2.4	1.0	0.4
250	27250B251JO0	3.6	2.4	1.0	0.4
270	27250B271JO0	3.9	2.4	1.1	0.5
300	27250B301JO0	3.9	2.7	1.1	0.5
330	27250B331JO0	4.3	2.7	1.2	0.5
360	27250B361JO0	4.3	2.7	1.3	0.6
390	27250B391JO0	4.3	2.7	1.3	0.6
430	27250B431JO0	4.7	3.0	1.5	0.7
470	27250B471JO0	4.7	3.3	1.5	0.7
500	27250B501JO0	4.7	3.3	1.6	0.8
510	27250B511JO0	4.7	3.3	1.6	0.8
560	27250B561JO0	5.1	3.6	1.8	0.8
600	27250B601JO0	5.1	3.6	1.8	0.8
620	27250B621JO0	5.1	3.6	1.8	0.8
680	27250B681JO0	2.1	3.6	1.8	0.8
750	27250B751JO0	5.6	3.9	2.2	0.9

Cap (pF)	Catalog Part Number	Maximum AC Current at 65 °C 3 MHz (A)	1 MHz (A)	300 kHz (A)	100 kHz (A)
5000 Peak Volts					
820	27250B821JO0	5.6	3.9	2.4	1.0
910	27250B911JO0	5.6	4.3	2.4	1.1
1000	27250B102JO0	6.2	4.3	2.4	1.2
1100	27250B112JO0	6.2	4.7	2.7	1.2
1200	27250B122JO0	6.2	4.7	2.7	1.3
1300	27250B132JO0	6.8	5.1	3.0	1.3
1500	27250B152JO0	6.8	5.1	3.3	1.5
1600	27250B162JO0	6.8	5.6	3.6	1.5
1800	27250B182JO0	7.5	5.6	3.6	1.6
2000	27250B202JO0	7.5	6.2	3.6	1.8
2200	27250B222JO0	7.5	6.2	3.9	2.0
2400	27250B242JO0	8.2	6.2	4.3	2.0
40000 Peak Volts					
1100	272400B112JO0	15.5	12.7	8.0	4.7
1300	272400B132JO0	18.7	15.5	9.8	5.9
1500	272400B152JO0	19.4	16.4	10.5	6.3
50000 Peak Volts					
900	272500B901JO0	16.4	13.1	8.2	4.9
1000	272500B102JO0	16.6	13.5	8.6	5.1
1200	272500B122JO0	18.1	14.9	9.4	5.6
60000 Peak Volts					
800	272600B801JO0	16.0	12.5	7.7	4.6
900	272600B901JO0	16.4	13.1	8.2	4.9
1000	272600B102JO0	16.3	13.3	8.5	5.1

Type 273 Ratings

400 Peak Volts					
1000000	27304B204J00	18.0	25.0	22.0	12.0
600 Peak Volts					
200000	27306B204JO0	18.0	25.0	22.0	12.0
250000	27306B254JO0	18.0	25.0	22.0	12.0
300000	27306B304JO0	18.0	25.0	22.0	12.0
400000	27306B404JO0	18.0	25.0	22.0	12.0
500000	27306B504JO0	18.0	25.0	22.0	12.0
600000	27306B604JO0	18.0	25.0	22.0	12.0
750000	27306B754JO0	18.0	25.0	22.0	12.0
2000 Peak Volts					
100000	27320B104J00	18.0	23.0	18.0	10.5
4000 Peak Volts					
25000	27340B253JO0	18.0	24.0	19.0	11.5
30000	27340B303JO0	18.0	24.0	19.0	11.5

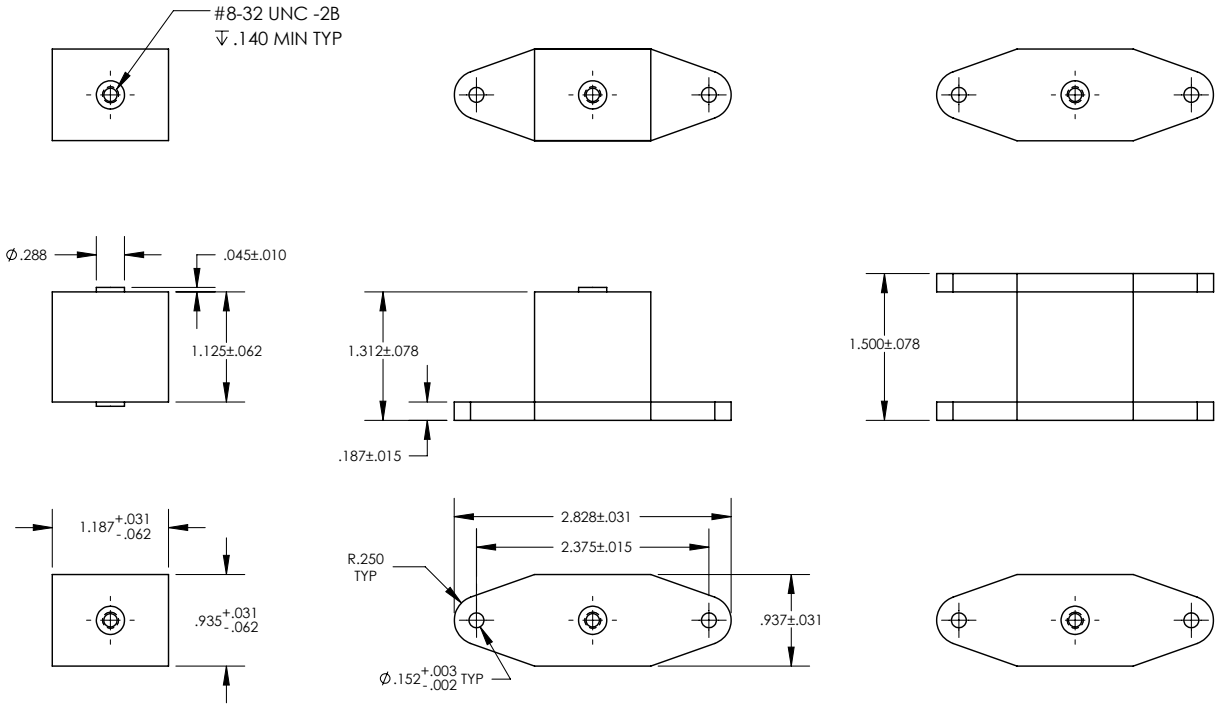
Type 273 Ratings

Cap (pF)	Catalog Part Number	Maximum AC Current at 65 °C 3 MHz (A)	1 MHz (A)	300 kHz (A)	100 kHz (A)
4000 Peak Volts					
40000	27340B403JO0	18.0	24.0	20.0	12.0
50000	27340B503JO0	18.0	25.0	21.0	12.0
5000 Peak Volts					
20000	27350B203JO0	18.0	23.0	18.0	10.5
8000 Peak Volts					
200	27380B201JO0	7.5	5.0	1.5	0.5
250	27380B251JO0	7.5	5.0	1.5	0.5
500	27380B501JO0	8.5	6.0	3.0	1.0

Cap (pF)	Catalog Part Number	Maximum AC Current at 65 °C 3 MHz (A)	1 MHz (A)	300 kHz (A)	100 kHz (A)
8000 Peak Volts					
1000	27380B102JO0	10.0	8.5	4.5	1.5
2000	27380B202JO0	11.5	11.5	7.5	3.0
3000	27380B302JO0	12.5	13.5	9.5	4.0
4000	27380B402JO0	13.5	15.5	10.5	5.0
4500	27380B452JO0	14.0	16.0	11.5	6.0
5000	27380B502JO0	14.0	16.0	11.5	6.0
6000	27380B602JO0	15.0	17.0	12.5	6.5
8000	27380B802JO0	16.0	19.0	14.0	7.5
60000	27380B103JO0	17.0	20.0	15.0	8.5

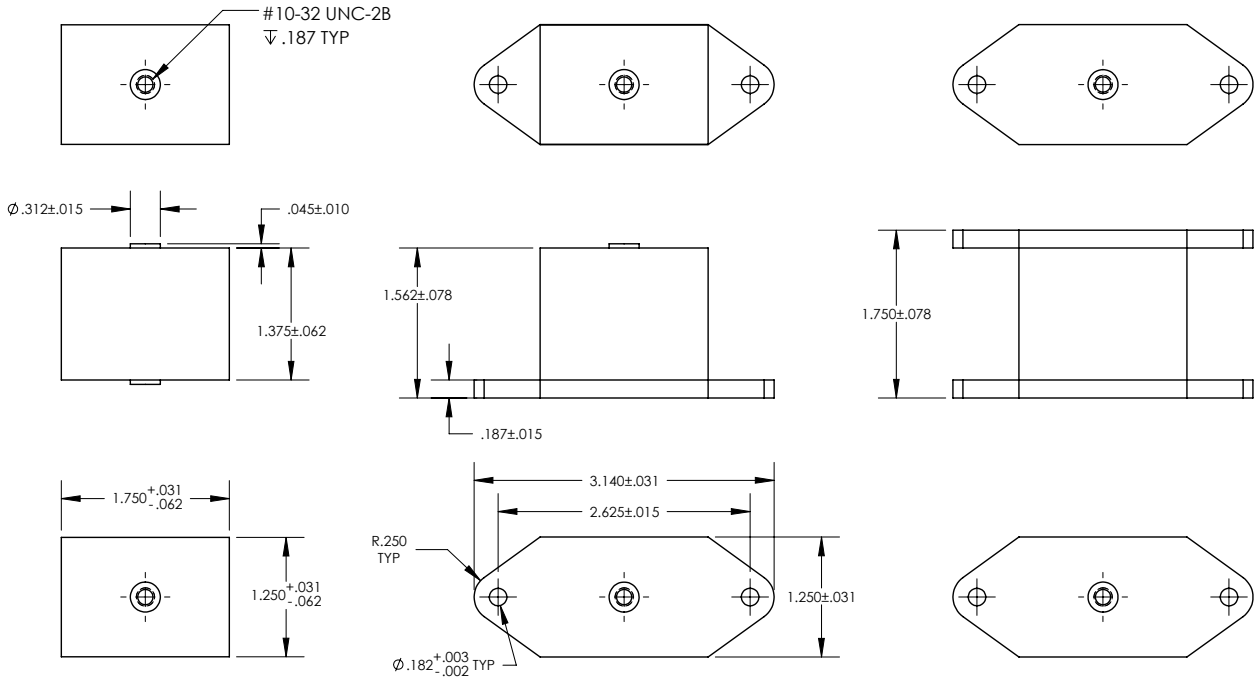
Dimensions

Type 271



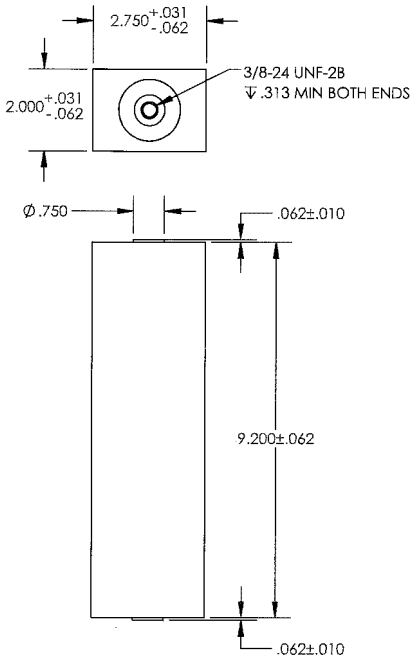
Mounting Style 0 Mounting Style 1 Mounting Style 2

Type 272

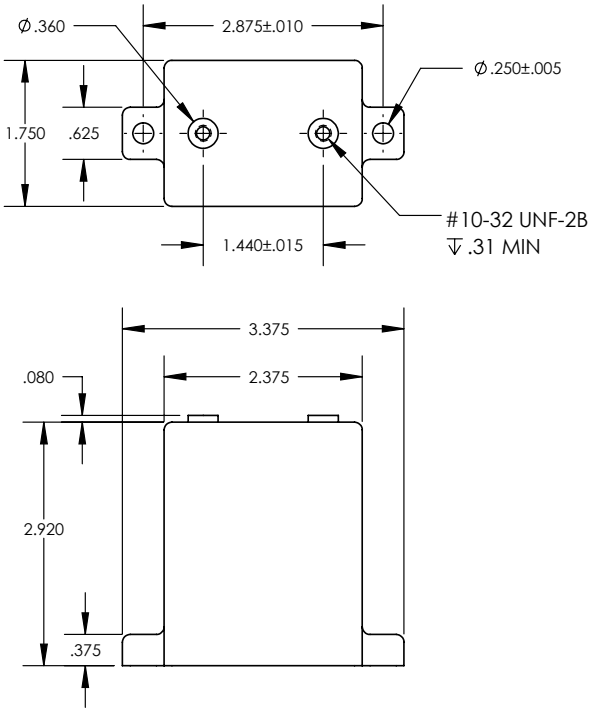


Mounting Style 0 Mounting Style 1 Mounting Style 2

Type 272 (30 kVpk to 60 kVpk)

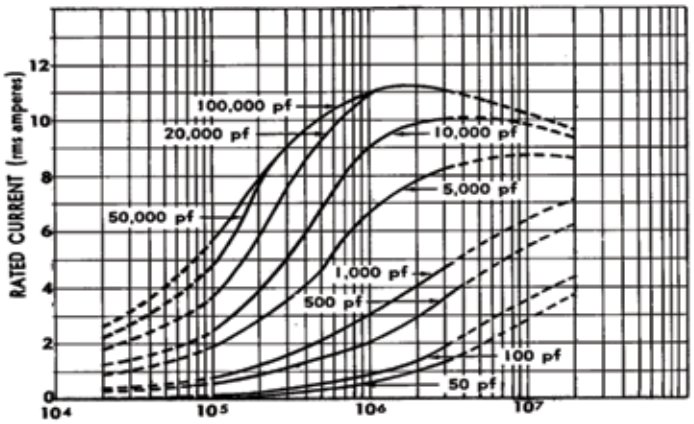


Type 273

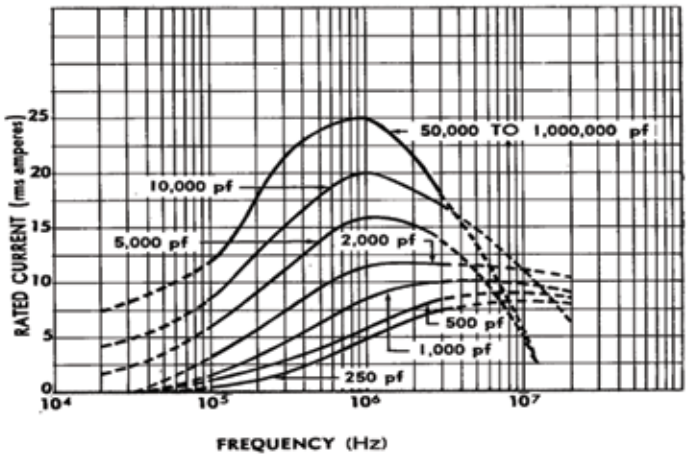


Tolerances Unless
Otherwise Specified ±.031

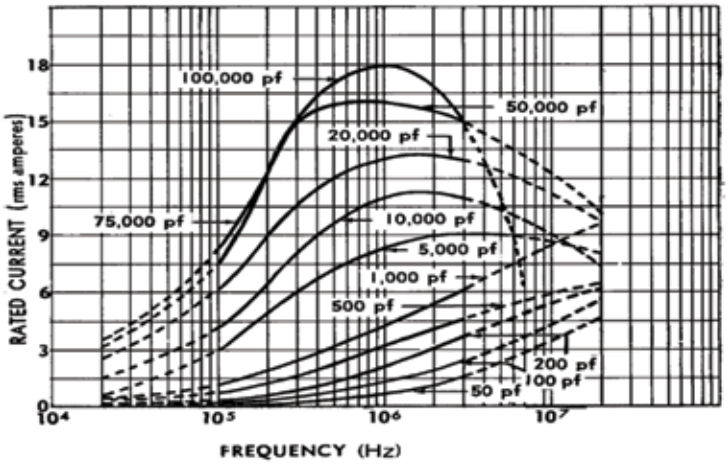
Type 271 (CM 66)
Rated Current Versus Frequency



Type 273
Rated Current Versus Frequency



Type 272 (CM 71)
Rated Current Versus Frequency



High-Voltage Types Ordering Information, Mica Capacitors

Ordering Information

Ordering Information: Order by complete part number, as below. For other options, write your requirements on your quote request or purchase order.

Cast-Case Part Numbering System

271, 272, 273 — **CDE Type**

30 — **Rated Peak Voltage**
10 = 1000
30 = 3000
250 = 25000
600 = 60000

B — **Characteristic**

470 — **Capacitance**
470 = 47 pF
361 = 360 pF
122 = 1200 pF

J — **Capacitance Tolerance**
G = ±2%
J = ±5%

O — **Temperature Range**
O = –55 °C to +125 °C

0 — **Mounting Style**
0 = No mounting plate
1 = Mounting plate on bottom only
2 = Mounting plates on top and bottom

	Temp. Coeff. ppm/°C	Capacitance Drift	Standard Cap. Range
B	Not specified	Not specified	
C	–200 to +200	±(0.5% +0.1pF)	1–18 pF
D	–100 to +100	±(0.3% +0.1pF)	
E	– 20 to +100	±(0.1% +0.1pF)	20–82 pF

Specifications

Capacitance is within tolerance when measured at these frequencies:

1–1000 pF @ 1 MHz
> 1000 pF @ 1 kHz

Dissipation Factor is typically less than 0.05% when measured as above. Dissipation factor (DF) equals $2\pi fRC$, where f is the test frequency, R is the equivalent series resistance (Ω), and C is nominal capacitance (F). Q is the reciprocal of the dissipation factor.

Operating Temperature Range is –55 °C to +125 °C. Insulation Resistance is no less than 7500 MΩ when measured at 100 Vdc.

Temperature Coefficient and Capacitance Drift: Measure the capacitors' capacitance at 25 °C, 55 °C, 25 °C, 125 °C, and at 25 °C after stabilizing at each temperature. The capacitance will meet the limits of the Characteristic table shown in Ordering Information.

Rated Peak Voltage is not to be exceeded in actual use. Voltage ratings are in the listings and apply under the following conditions:

Temperature: Within the specified operating temperature range.
Altitude: Up to 50,000 feet or 3.4 inches of mercury.
Relative Humidity: Up to 80%.
Frequency: As specified.
Where pulse conditions are encountered, contact us.

Withstanding Voltage: Capacitors will withstand application of an ac potential between terminals having an rms value equal to the rated peak voltage at a frequency of 100 Hz or less without damage, arcing or breakdown. Apply the potential by raising the voltage from zero to the specified value. Apply the full potential for a minimum of 5 seconds.

Case Insulation: Capacitor cases will withstand, without damage, arcing or breakdown, a 60-Hz peak ac potential equal to twice the rated peak voltage applied between the terminals connected together and a metal electrode touching the case. Apply this potential for 1to 5 seconds.

Current Ratings at various fre-quencies are in the listings and ap-ply under the following conditions:

Temperature: 65 °C maximum
Derating Factor: None

Vibration: Capacitors will withstand vibrational forces occurring at rates of from 10 to 55 Hz for 4½ hours. The total excursion during vibration is 0.06 inches. At the end of this period, make the following inspections and tests:

Visual and Mechanical Inspection: No perceptible deterioration. Withstanding Voltage: As specified under Withstanding Voltage.
Insulation Resistance: No less than 7500 MΩ.
Capacitance Change: Not to exceed 3% of the nominal value or one picofarad, whichever is greater.

Temperature and Immersion Cycling: Capacitors will withstand the temperature and immersion cycles indicated in the tables below. Follow three temperature cycles by two immersion cycles. Make the measurements listed below no more than 30 minutes following the final immersion cycle:

Withstanding Voltage: As specified under Withstanding Voltage.
Insulation Resistance: No less than 7500 MΩ.
Capacitance: Change not to exceed 4% of the nominal value or one picofarad, whichever is greater.

Temperature Cycling Test Conditions

Steps	Temp (°C)	Interval (Minutes)
1	–55 + 0 –3	30
2	25 +10 –5	10 to 15
3	125 + 3 –0	30
4	25 +10 –5	10 to 15

Immersion Test Conditions

•Number of cycles: 2
•Duration of each immersion: 15 minutes
•Immersion bath: Saturated solution of sodium chloride and water
•Temp. of hot bath: 65 –0 +5 °C
•Temp. of cold bath: 25 –0 +10 °C

Life Test: Subject all capacitors to a temperature of 55 °C for 48 hours. Then subject units cast in rectangular cases (Types 271, 272, and 273) to a 60-Hz rms voltage equal to the rated peak voltage for 250 hours. Subject units cast in cylindrical cases (Types 291, 292, 293, and 294) to a 60-Hz rms voltage equal to 90% of the rated peak voltage for 250 hours. In both tests, maintain the temperature at 125 °C. After test, the capacitors will meet these requirements:

Withstanding Voltage: As specified under Withstanding Voltage.
Insulation Resistance: No less than 7500 MΩ.
Capacitance Change: Within the limits given in the table below or one picofarad, whichever is greater.

Characteristic	Maximum Cap.
B	**±8%**
C	**±3%**
D	**±3%**
E	**±3%**

In addition, the capacitor must show no visual damage and the markings must be legible.

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OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

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»**.

AVIC 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).

FORSTAR®

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