Rectangular Types, High-Voltage Mica Capacitors

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
Voltage Range: 1 to 8 kV_{pk}
Capacitance Tolerance: ±2% (G), ±5% (J)
Temperature Range: –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	11	9.1	4.7
50000	27102B503JO0	11	11	9.1	4.7
51000	27102B513JO0	11	11	9.1	4.7
56000	27102B563JO0	11	11	9.1	4.7
62000	27102B623JO0	11	11	9.1	5.1
68000	27102B683JO0	11	11	9.1	5.1
75000	27102B753JO0	11	11	9.1	5.1
82000	27102B823JO0	11	11	9.1	5.1
91000	27102B913JO0	11	11	9.1	5.6
100000	27102B104JO0	11	11	9.1	5.6
500 Peak Volts					
27000	27105B273JO0	11	11	7.5	3.9
30000	27105B303JO0	11	11	8.2	3.9
33000	27105B333JO0	11	11	8.2	4.3
36000	27105B363JO0	11	11	8.2	4.3
39000	27105B393JO0	11	11	8.2	4.3
43000	27105B433JO0	11	11	9.1	4.7
1,000 Peak Volts					
10000	27110B103JO0	10	9.1	5.1	2.4
11000	27110B113JO0	11	10	5.6	2.7
12000	27110B123JO0	11	10	6.2	3.0
13000	27110B133JO0	11	11	6.8	3.0
15000	27110B153JO0	11	11	6.8	3.3
16000	27110B163JO0	11	11	6.8	3.3
18000	27110B183JO0	11	11	7.5	3.3
20000	27110B203JO0	11	11	7.5	3.6
22000	27110B223JO0	11	11	7.5	3.6
24000	27110B243JO0	11	11	7.5	3.6
1,500 Peak Volts					
8000	27115B802JO0	10	8.2	4.7	2.2
8200	27115B822JO0	10	8.2	4.7	2.2
9100	27115B912JO0	10	8.2	4.7	2.4
2700	27120B272JO0	6.8	5.1	2.7	1.3
2,000 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
3,000 Peak Volts					
47	27130B470JO0	1.2	0.51	0.15	0.051
51	27130B510JO0	1.3	0.51	0.18	0.056
56	27130B560JO0	1.3	0.56	0.20	0.056
62	27130B620JO0	1.5	0.62	0.22	0.068
68	27130B680JO0	1.5	0.62	0.24	0.075
75	27130B750JO0	1.5	0.62	0.27	0.082
82	27130B820JO0	1.6	0.68	0.27	0.082
91	27130B910JO0	1.6	0.68	0.33	0.091
100	27130B101JO0	1.8	0.75	0.33	0.10
110	27130B111JO0	1.8	0.82	0.36	0.12
120	27130B121JO0	2	0.91	0.39	0.15
130	27130B131JO0	2	0.91	0.43	0.16
150	27130B151JO0	2.2	1.0	0.47	0.18
160	27130B161JO0	2.2	1.1	0.51	0.20
180	27130B181JO0	2.4	1.1	0.56	0.22
200	27130B201JO0	2.4	1.2	0.62	0.24
220	27130B221JO0	2.7	1.3	0.62	0.27
240	27130B241JO0	2.7	1.3	0.68	0.30
250	27130B251JO0	2.7	1.3	0.68	0.30
270	27130B271JO0	3.1	1.5	0.75	0.30
300	27130B301JO0	3.0	1.5	0.75	0.36
330	27130B331JO0	3.0	1.6	0.82	0.36
360	27130B361JO0	3.3	1.6	0.91	0.39
390	27130B391JO0	3.3	1.8	0.91	0.43
430	27130B431JO0	3.6	1.8	1.0	0.47
470	27130B471JO0	3.6	2.0	1.1	0.47
500	27130B501JO0	3.6	2.0	1.1	0.51
510	27130B511JO0	3.6	2.0	1.1	0.51

Rectangular Types, High-Voltage Mica Capacitors

Types 271, 272 and 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)
560	27130B561JO0	3.9	2.2	1.2	0.51
620	27130B621JO0	3.9	2.4	1.2	0.56
680	27130B681JO0	4.3	2.4	1.3	0.62
750	27130B751JO0	4.3	2.7	1.3	0.62
820	27130B821JO0	4.3	2.7	1.5	0.68
910	27130B911JO0	4.7	3.0	1.5	0.68
1000	27130B102JO0	4.7	3.0	1.6	0.75
1100	27130B112JO0	5.1	3.3	1.6	0.82
1200	27130B122JO0	5.1	3.3	1.8	0.82
1300	27130B132JO0	5.6	3.6	1.8	0.91
1500	27130B152JO0	5.6	3.9	2.0	0.91
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
250 Peak Volts					
250000	27202B254J00	15	18	15	8.2
500 Peak Volts					
82000	27205B823JO0	15	18	15	8.2
91000	27205B913JO0	15	18	15	8.2
100000	27205B104JO0	15	18	15	8.2
200000	27205B204JO0	15	18	15	8.2
1,000 Peak Volts					
56000	27210B563JO0	15	16	15	8.2
62000	27210B623JO0	15	18	15	8.2
68000	27210B683JO0	15	18	15	8.2
75000	27215B333JO0	15	18	15	8.2
1,500 Peak Volts					
24000	27215B243JO0	13	15	12	6.8
27000	27215B273JO0	13	15	12	6.8
30000	27215B303JO0	13	15	12	6.8
33000	27215B333JO0	13	15	13	7.5
36000	27215B363JO0	13	16	13	7.5
39000	27215B393JO0	15	16	13	7.5
43000	27215B433JO0	15	16	13	7.5
47000	27215B473JO0	15	16	13	7.5
50000	27215B503JO0	15	16	15	7.5
51000	27215B513JO0	15	16	15	7.5
2,000 Peak Volts					
8200	27220B822JO0	10	10	7.5	3.9
9100	27220B912JO0	11	10	8.2	4.3
10000	27220B103JO0	11	11	8.2	4.3
11000	27220B113JO0	11	11	8.2	4.7
12000	27220B123JO0	11	11	9.1	4.7
13000	27220B133JO0	12	12	9.1	5.1
15000	27220B153JO0	12	12	10	5.1
16000	27220B163JO0	12	12	10	5.6
18000	27220B183JO0	12	13	10	5.6
20000	27220B203JO0	13	13	11	6.2
22000	27220B223JO0	13	13	11	6.2
3,000 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
5100	27230B512JO0	9.1	8.2	6.2	3.0
5600	27230B562JO0	9.1	9.1	6.2	3.3
6000	27230B602JO0	10	9.1	6.8	3.6
6200	27230B622JO0	10	9.1	6.8	3.6
6800	27230B682JO0	10	9.1	6.8	3.6
7500	27230B752JO0	10	9.1	6.8	3.9
5,000 Peak Volts					
47	27250B470JO0	1.5	0.62	0.20	0.062
51	27250B510JO0	1.6	0.68	0.22	0.062
56	27250B560JO0	1.8	0.75	0.27	0.068
62	27250B620JO0	1.8	0.82	0.30	0.075
68	27250B680JO0	2	0.91	0.33	0.075
75	27250B750JO0	2	1.0	0.36	0.082

Cap (pF)	Catalog Part Number	Maximum AC Current at 65 °C 3 MHz (A)	1 MHz (A)	300 kHz (A)	100 kHz (A)
82	27250B820JO0	2.2	1.1	0.39	0.091
91	27250B910JO0	2.4	1.2	0.4	0.091
100	27250B101JO0	2.4	1.2	0.43	0.10
110	27250B111JO0	2.7	1.3	0.51	0.15
120	27250B121JO0	2.7	1.5	0.56	0.18
130	27250B131JO0	3.0	1.6	0.62	0.22
150	27250B151JO0	3.3	1.8	0.68	0.24
160	27250B161JO0	3.3	1.8	0.75	0.27
180	27250B181JO0	3.3	2.0	0.82	0.30
200	27250B201JO0	3.6	2.0	0.82	0.33
220	27250B221JO0	3.6	2.2	0.91	0.39
240	27250B241JO0	3.6	2.4	1.0	0.43
250	27250B251JO0	3.6	2.4	1.0	0.43
270	27250B271JO0	3.9	2.4	1.1	0.47
300	27250B301JO0	3.9	2.7	1.1	0.51
330	27250B331JO0	4.3	2.7	1.2	0.51
360	27250B361JO0	4.3	2.7	1.3	0.56
390	27250B391JO0	4.3	2.7	1.3	0.62
430	27250B431JO0	4.7	3.0	1.5	0.68
470	27250B471JO0	4.7	3.3	1.5	0.68
500	27250B501JO0	4.7	3.3	1.6	0.75
510	27250B511JO0	4.7	3.3	1.6	0.75
560	27250B561JO0	5.1	3.6	1.8	0.82
600	27250B601JO0	5.1	3.6	1.8	0.82
620	27250B621JO0	5.1	3.6	1.8	0.82
680	27250B681JO0	2.1	3.6	1.8	0.82
750	27250B751JO0	5.6	3.9	2.2	0.91
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
400 Peak Volts					
1000000	27304B204L00	18	25	22	12
600 Peak Volts					
200000	27306B204JO0	18	25	22	12
250000	27306B254JO0	18	25	22	12
300000	27306B304JO0	18	25	22	12
400000	27306B404JO0	18	25	22	12
500000	27306B504JO0	18	25	22	12
600000	27306B604JO0	18	25	22	12
750000	27306B754JO0	18	25	22	12
2,000 Peak Volts					
100000	27320B104J00	18	23	18	10.5
4,000 Peak Volts					
25000	27340B253JO0	18	24	19	11.5
30000	27340B303JO0	18	24	19	11.5
40000	27340B403JO0	18	24	20	12.0
50000	27340B503JO0	18	25	21	12.0
5,000 Peak Volts					
20000	27350B203JO0	18	23	18	10.5
8,000 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
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
10000	27380B103JO0	17.0	20.0	15.0	8.5

Notice and Disclaimer: All product drawings, descriptions, specifications, statements, information and data (collectively, the "Information") in this datasheet or other publication are subject to change. The customer is responsible for checking, confirming and verifying the extent to which the Information contained in this datasheet or other publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without any guarantee, warranty, representation or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on the knowledge that the Cornell Dubilier company providing such statements ("Cornell Dubilier") has of operating conditions that such Cornell Dubilier company regards as typical for such applications, but are not intended to constitute any guarantee, warranty or representation regarding any such matter – and Cornell Dubilier specifically and expressly disclaims any guarantee, warranty or representation concerning the suitability for a specific customer application, use, storage, transportation, or operating environment. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by Cornell Dubilier with reference to the use of any Cornell Dubilier products is given gratis (unless otherwise specified by Cornell Dubilier), and Cornell Dubilier assumes no obligation or liability for the advice given or results obtained. Although Cornell Dubilier strives to apply the most stringent quality and safety standards regarding the design and manufacturing of its products, in light of the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies or other appropriate protective measures) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage. Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated in such warnings, cautions and notes, or that other safety measures may not be required.

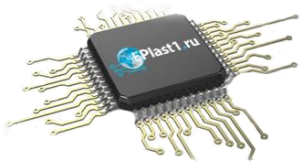
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.