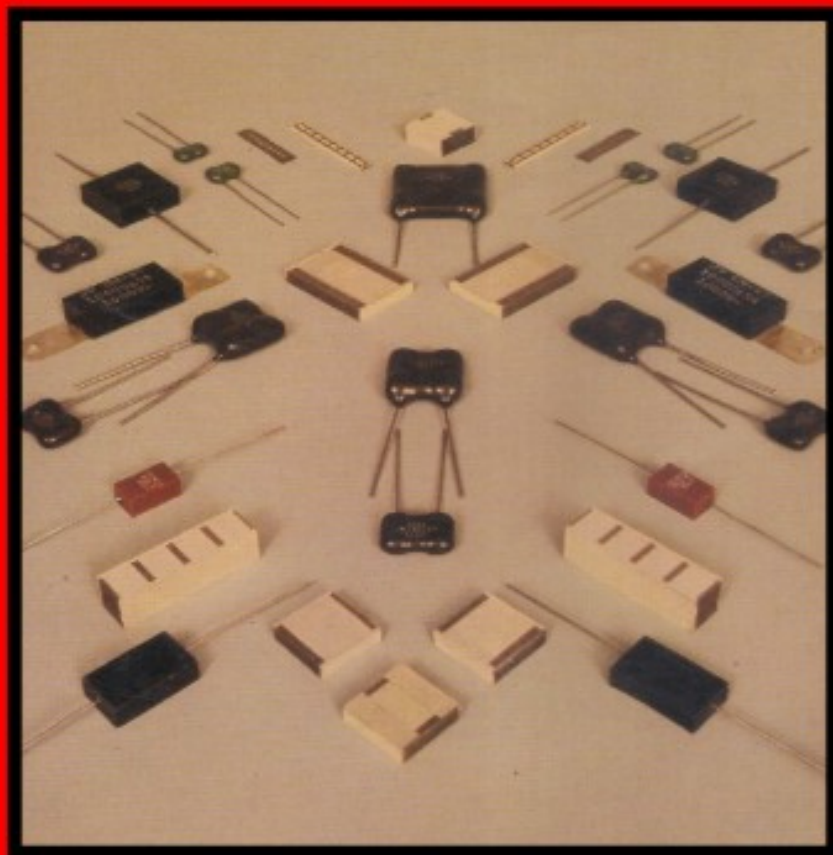




JINDAL RECTIFIERS

AN ISO-9001 : 2008 COMPANY



MICA CAPACITORS



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A Brief Company Profile

We are proud to introduce Jindal Rectifiers, an ISO 9001 - 2008 certified company, as the pioneer and undisputed market leader in the field of Industrial Voltage Stabilizers and Rectifiers in South East Asia since 1967.

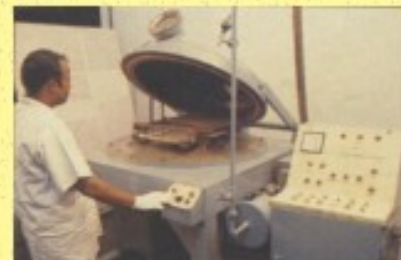
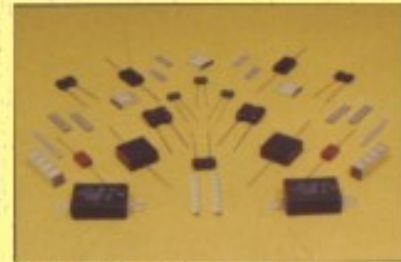
Jindal's is widely recognized for its unmatched value system of Quality, Service & relentless Pursuit for Excellence.

It is with great pride we announce that we have recently acquired the Electronic component manufacturing business of M/s. M.V. Electronics Pvt. Ltd. along with complete plant and machinery and manufacturing rights for the products manufactured by J.V. Electronics i.e. Mica Capacitors, EMI filters and LED based lamps.

The Technical know how for manufacturing of Mica capacitors was obtained from the then Sangamo Capacitor Division, a Schumberger Company.

EMI Filters and LED based lamps are being manufactured in collaboration with OXLEY Development Company UK.

We also represent "The Oxley Group" in India as their authorized representative for sale and distribution of their other products.

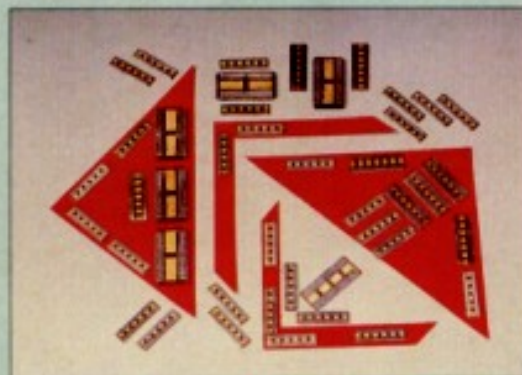




THE JINDAL'S PRODUCT RANGE

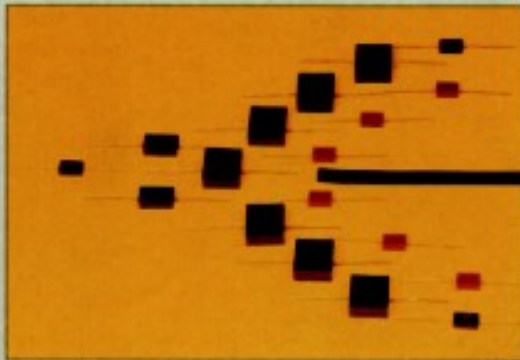
SILVER MICA PLATES & SECTIONS/STACKS

High quality silver frit compound of International Standard or as specified by customers is applied to the Indian Ruby Mica by the screen printing method. This process ensures sharp, well defined firmly adherent & accurately located electrodes. The basic building block of a Mica Capacitor is the Silvered Mica Plate. One or more of these plates are formed into a sandwich with the aid of extremely pure conductive foils and bonded together with a variety of chemical compositions. J R Silvered Mica Plates and Sections/Stacks are processed under controlled environmental conditions required to meet Military and Industrial Applications. These meet all the requirements of dissipation factor, temperature coefficient, capacitance drift and insulation resistance specifications of customers for a variety of Mica Capacitors.



DIPPED RADIAL MICA CAPACITORS

The assembled sections/stacks described earlier are cleaned and provided with Radial lead wires made of oxygen-free high conductive copper or copper weld. The leaded chips are then put through a multi-layer encapsulation process. Two of these layers use epoxy resins under vacuum and the final layer is deposited by fluidised bed coating techniques using electronic grade fire retardant epoxy resin powders which are then heat-stabilised. The design and construction of Radial Dipped Mica Capacitors provide a remarkably small, rugged unit with excellent electrical characteristics meeting all the requirements of JSS 50201, MIL-C-5, MIL-C-39001 etc. These capacitors are available in Styles D-05, D-07, D-10, D-15, D-19, D-20, D-30 & D-42 upto 100,000 pF in various tolerance and voltage ratings making them well adapted to applications in instruments, filters, delay lines and many other fields giving excellent performance characteristics.



MOULDED AXIAL MICA CAPACITORS

The chips used in the Axial Moulded Capacitors are similar to the ones used in the Radial version which after being provided with Axial leads are given an epoxy resin mould finish ensuring high mechanical strength and excellent climatic performance. The finished capacitors are then subjected to various environmental and climatic tests similar to the Radial Dipped variety.

Axial Moulded Capacitors are available in Styles CM-15, CM-20, CM-30 & CM-35 upto 20,000 pF in different tolerances and voltage ratings. They have been designed for applications in logic and transmission circuits, pulse forming networks, delay lines, filters, DC voltage blocking and timing circuits, hi-reliable electronic instruments for flight electronics, measuring and test devices, navigation etc.

MOULDED RADIAL MICA CAPACITORS

The chips used for Radial Moulded Capacitors are made by bonding one or more Silver Mica active plates and Silver Mica supports with a special technique. Chips are then provided radial lead wires made of copper or copper clad steel. These leaded chips are sealed with epoxy resin in plastic cases made of a special grade flame retardant material. The finish guarantees high climatic and mechanical strength. These capacitors have long term stability, low dissipation factor and temperature coefficient. Radial Moulded Capacitors are available in Styles RM-05, RM-06, RM-08, RM-10, RM-20, RM-30, RM-40 & RM-50. Fixed external dimensions enable automatic insertion for Printed Circuit Boards.

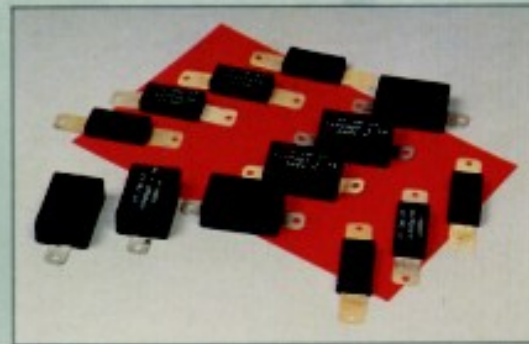




MINIATURE DIPPED MICA CAPACITORS

The chips for these capacitors are designed in a method similar to that used in the Radial Moulded Capacitors. These are encapsulated with multi-layer epoxy resin and epoxy resin powder formulations identical to the processes carried out for Radial Dipped styles. Dipped Miniature Capacitors have been specially designed to provide maximum capacitance in the smallest volume with excellent electrical and environmental characteristics. In the process of indigenisation, they replace a partial range of leaded multi-layer ceramic capacitors.

The finished Mica Capacitors are subjected to various tests in accordance with MIL-C-5 or JSS 50201 specifications. Samples are put through various reliability tests including those of temperature cycling, temperature coefficient and capacitance drift, moisture resistance, shock, vibration etc. in accordance with the relevant test standards and methods. All qualified lots are then marked for basic parameter details, subjected to Solvent Resistance Test as per MIL-STD-202 and finally made ready for shipment.



A NEW RANGE ...

A new range of reliable mica capacitors in Styles CM-47 and CM-52 have been developed with radial / axial lead wires or wide band terminals. This range is epoxy sealed to provide high mechanical strength & climatic characteristics. The flat rectangular type leads provide low self inductive losses. These styles are available in higher capacitance & voltage ratings. Low resistance metalization on the terminals provide increased current handling capability.

Also available are unencapsulated leaded and leadless chips, inserts or capacitor cells for on-board assembly and for use in hybrids. These could be from within the ranges of styles described above or specials as per individual customer specifications.



APPLICATIONS

J.R. Mica Capacitors feature in a wide variety of circuit configurations including

- TUNING • TIMING • FILTERING • COUPLING
- BY-PASS • PULSE FORMING • STANDARDS
- LOW LOSS CIRCUITS • VOLTAGE BLOCKING

in an ever widening range of applications in

- RF and communication networks • Ground control & space flight equipment • Data processing and computers • Missile applications • Test & measuring equipment • Safety, security and alarm devices • Interference suppression devices • Low power instrumentation for low loss circuits • Automotive instrumentation • Aero Space Avionics • Satellite communication • Defence applications • Medical electronics • Calibration standards • Plant and process control instrumentation • Radars • Telecommunications • Navigation aids • Delay lines.



J.R. Mica Capacitors have been carefully designed with adequate safety margins to provide maximum capacitance in the smallest volume with excellent mechanical, electrical and environmental characteristics. The design parameters are so selected as to provide enhanced stability, reliability and life characteristics, low loss and close tolerances, low temperature coefficients, high insulation resistances etc. completely protecting the basic well known inherent characteristics of the best Indian muscovite Ruby mica.





THE CREED OF QUALITY ...

The quality of a product must be built into the product. And this must be done at every stage right from the product design, materials, equipment, process and manpower selection through to every step in and associated with the manufacturing activity till the product is eventually shipped out to the customer. Further, the customer must get the right product at the right time with the right quality.

To achieve this, at J.R. each and every area of activity is closely monitored to audit and assess whether they conform to written approved procedures and documents. The Quality Control Manual of the Company describes our Quality Policy and is supported by a variety of documentation which cover all systems, operations and procedures in use.

An elaborate traceability procedure can pinpoint sources of all raw materials and piece parts used in a product, the dates, sequences and personnel employed to produce it, the quality assessments carried out and the findings there-of, the production & test equipment used, the status of their calibration then and in fact any relevant detail that could subsequently be of use for any analysis of results.

Based on the strengths of our technology and our systems, specially those employed in our





... **UNSTINTING** **INNOVATION WITH R&D**

Quality Control and Assurance, we have not only obtained all the possible national and international certifications but also continued to service our customers in all the leading nations of the world, winning for J.R. innumerable shields, awards and certificates eulogising our achievements.

In fact, J.V. was the first Indian electronic component manufacturing company to have been certified to meet all the requirements of ISO 9002 and honoured by the "Excellence in Electronics" award by the Honourable Prime Minister of India.

No wonder then, that the efforts have extended successfully into areas of in-house design, development and fabrication of test jigs, fixtures, piece parts and sophisticated microprocessor controlled automated production equipment employing robotics.

Extensive work has also been carried out in cooperation with vendors, suppliers and even customers to develop items like compatible resin formulations for providing flame retardant properties to the finished capacitor or in-house production of critical conductive silver pastes for electrode formation on the mica plate. All these are proud achievements which motivate our personnel to soar to even greater heights.





WORLD WIDE MARKETS

EXPORT MARKET : JVE. Who pioneered the world wide marketing of Mica capacitors, silver mica plates, Sections and Stacks from India, a **unique achievement** in the area of component exports, has now been taken over by **JINDAL RECTIFIERS**.

With customers in almost all the leading technically advanced nations of USA, UK, Germany, France etc., we are always looking for newer markets and applications.

It has always been our philosophy to give best services to our customers and this has stood by us all these years in maintaining a steady growth in our export and thus earning valuable foreign exchange for the country.

It has won us a large number of certificates and awards from Government of India for outstanding export performance.

DOMESTIC MARKET : In the initial years, apart from the fact that JV (**now JINDAL'S**) was set up with a 100% export obligation and the export market had kept us so busy that there was hardly any time or capacity to even consider the domestic market. It is indeed the industry's own way of finding out what is good for it, that we found our customers wanting to talk to us after they discovered to their pleasant surprise that the mica capacitors they were importing were indeed produced in our own country at JV (**now JINDAL'S**). This was the beginning of the domestic market.

Since then, it has been a continuous feature with an ever accelerating list of users in a large variety of applications. Today we have approvals not only from Indian Defense but Our mica capacitors have also been approved and used by Indian Space research Organization, Dept. of telecommunications etc, for their prestigious projects. Our Indian customers are now able to procure and use the same styles and grades of Mica capacitors which their counterparts have been using in all the hi-tech products overseas.



GENERAL SPECIFICATIONS

DETAILS OF CODES ACCORDING TO MIL/JSS

TEMPERATURE COEFFICIENT AND CAPACITANCE DRIFT		
DESIGNATOR	TEMPERATURE COEFFICIENT (ppm/°C)	CAPACITANCE DRIFT
C	- 200 to + 200	± (0.5 % + 0.1 pF)
D	- 100 to + 100	± (0.3 % + 0.1 pF)
E	- 20 to + 100	± (0.1 % + 0.1 pF)
F	- 0 to + 70	± (0.05 % + 0.1 pF)
G	- 20 to + 50	± (0.05 % + 0.1 pF)
H	- 20 to + 30	± (0.05 % + 0.1 pF)

OPERATING TEMPERATURE RANGE			
DESIGNATOR	TEMPERATURE RANGE	DESIGNATOR	TEMPERATURE RANGE
L	- 40 to + 85°C	O	- 55 to + 125°C
N	- 55 to + 85°C	P	- 55 to + 150°C

CAPACITANCE TOLERANCE							
MIL				JSS			
SYMBOL	TOLERANCE	SYMBOL	TOLERANCE	SYMBOL	TOLERANCE	SYMBOL	TOLERANCE
D	± 0.5 pF	G	± 2 %	A	± 0.25 pF	F	± 1 %
A	± 1.0 pF	J	± 5 %	B	± 0.5 pF	G	± 2 %
E	± 0.5 %	K	± 10 %	C	± 1.0 pF	J	± 5 %
F	± 1 %	M	± 20 %	D	± 2.0 pF	K	± 10 %
				E	± 0.5 %	M	± 20 %

RATED D.C. VOLTAGE					
SYMBOL	VOLTAGE	SYMBOL	VOLTAGE	SYMBOL	VOLTAGE
Y	50	D	500	H	1500
A	100	E	600	J	2000
B	250	F	1000	K	2500
C	300	G	1200	L	3000

ORDERING DATA					
D 15	C	D	102	J	P
Style	Characteristics	Voltage	Capacitance	Tolerance	Temperature

Capacitance in picofarads is indicated by three digits. The first two digits represent significant figures and the third specifies the number of zeros to follow. Where the nominal capacitance is in fractions, the decimal point shall be indicated with letter 'p' 'n' or 'u' as the case may be, e.g. 5p6 indicates 5.6 pF, 4n7 indicates 4.7 nF and u22 indicates 0.22 uF.



OUR RANGE OF CAPACITANCE PER STYLE AND VOLTAGE

STYLE			CAPACITANCE RANGE IN pF					
JR	JSS	MIL	100 WVDC	300 WVDC	500 WVDC	1000 WVDC	1500 WVDC	2000 WVDC
DIPPED RADIALS								
D-05	CM05 (A-N)		1 - 200	1 - 120				
D-07			1 - 1500	1 - 820	1 - 510			
D-10	CM01 (A-H)	CM04	1 - 1500	1 - 820	1 - 510			
D-15	CM01 (J-R)	CM05	1 - 1500	1 - 820	1 - 510			
D-19	CM01 (S-DD)	CM06	100 - 12300	100 - 6800	100 - 5100	5 - 3300	5 - 1000	
D-20			100 - 18000	100 - 12300	100 - 10000	5 - 5600	5 - 3000	5 - 1600
D-30	CM01 (EE-LL)	CM07	470 - 51000	470 - 30000	470 - 22000	120 - 10000	120 - 6800	120 - 4000
D-42	CM01 (MM-UU)	CM08	5000 - 100000	5000 - 68000	5000 - 51000	470 - 22000	470 - 13200	470 - 8200
MOULDED AXIALS								
CM-15	CM02-A	CM15	1 - 1000	1 - 820	1 - 680			
CM-20	CM02-B	CM20	100 - 6800	100 - 5100	100 - 3500	51 - 1500		
CM-30	CM02-C	CM30	470 - 14000	470 - 10200	470 - 8000	120 - 4700		
CM-35	CM02-D	CM35	470 - 20000	470 - 16200	470 - 13000	120 - 6800		
CM-47				2700 - 62000	2700 - 50000	1500 - 27000		
CM-52					1200 - 220000	820 - 130000	560 - 62000	330 - 22000

JR STYLE	CAPACITANCE RANGE IN pF	
	125 WVDC	250 WVDC
MOULDED RADIALS		
RM-05		5 - 270
RM-06		5 - 820
RM-08		10 - 1800
RM-10		100 - 2000
RM-20		2001 - 10000
RM-30	10100 - 22000	
RM-40	22100 - 33000	
RM-50		4700 - 51000

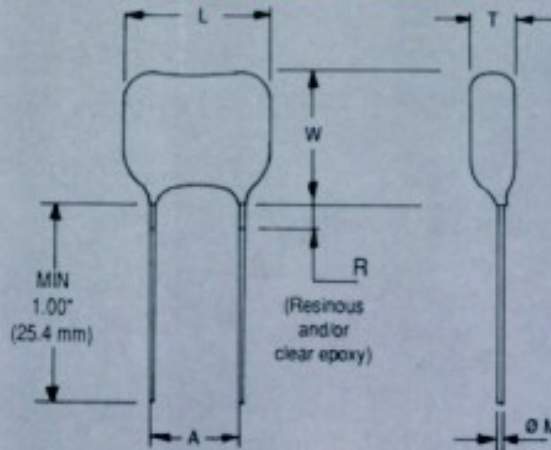
JR STYLE	CAPACITANCE RANGE IN pF		
	50 WVDC	100 WVDC	200 WVDC
MINIATURE DIPPED			
DS-05			5 - 1000
DS-08		10 - 3300	10 - 1800
DS-12		100 - 10000	100 - 6800
DS-20	100 - 22000	100 - 10000	100 - 6800

- NOTES:
1. Capacitance Ranges listed are for JR styles which equal or exceed MIL/JSS Specifications.
 2. For Specifications required outside of the limits listed, contact our Marketing Division.
 3. Radial Dipped Mica Capacitors with suffix 'E' are available in mm lead Spacings as given below:
 ■ DE10 : 5.0 mm ■ DE15 : 5.0 mm ■ DE19 : 7.5 mm ■ DE30 : 10.0 mm ■ DE42 : 25.0 mm
 4. Radial Dipped Mica Capacitors on special request are available upto 500 WVDC voltage for capacitance ranges listed below :
 ■ D10 : 1 to 680 pF ■ D15 : 1 to 1200 pF ■ D19 : 430 to 10000 pF ■ D30 : 470 to 30000 pF
 5. Unencapsulated leaded or bare chips, inserts or capacitor cells for on board assembly or for use in hybrids are available for different styles or as per customer request.
 6. Burnt in/Life Tested or Established Reliability capacitors to MIL-C-39001, MIL-C-87164 (USAF) or equivalent specifications for Defence and Space Applications are available.
 7. Specials to meet individual customer specifications can be developed.
 8. CM-52 available upto 6200 pF in 3000 WVDC.
 9. D-05 available upto 400 pF in 50 WVDC.



DIPPED RADIALS

J R MICA CAPACITORS



STYLE	A ± 0.031 (0.79)	M ± 0.002 (0.05)	R Max
D-05	0.120 (3.05)	0.016 (0.41)	0.078 (1.98)
D-07/D-10	0.150 (3.81)	0.016 (0.41)	0.125 (3.18)
D-15	0.225 (5.72)	0.025 (0.64)	0.125 (3.18)
D-19	0.350 (8.89)	0.032 (0.81)	0.141 (3.58)
D-20	0.425 (10.80)	0.032 (0.81)	0.141 (3.58)
D-30	0.425 (10.80)	0.040 (1.02)	0.141 (3.58)
D-42	1.050 (26.67)	0.040 (1.02)	0.141 (3.58)

Dimensions are in inches with millimeters in parentheses.

CAPACITANCE (pF)	WV (dc)	DIMENSIONS (inches)			DIMENSIONS (mm)		
		L Max	W Max	T Max	L Max	W Max	T Max
STYLE : D-05							
1 - 12	300	0.27	0.19	0.11	6.86	4.83	2.79
13 - 15	300	0.27	0.19	0.12	6.86	4.83	3.05
16 - 24	300	0.27	0.20	0.12	6.86	5.08	3.05
25 - 33	300	0.27	0.20	0.13	6.86	5.08	3.30
34 - 39	300	0.27	0.21	0.13	6.86	5.33	3.30
40 - 51	300	0.27	0.21	0.14	6.86	5.33	3.56
52 - 68	300	0.27	0.22	0.15	6.86	5.59	3.81
69 - 82	300	0.27	0.23	0.16	6.86	5.84	4.06
83 - 91	300	0.27	0.23	0.17	6.86	5.84	4.32
92 - 110	300	0.27	0.24	0.18	6.86	6.10	4.57
111 - 120	300	0.27	0.25	0.19	6.86	6.35	4.83
121 - 130	100	0.27	0.23	0.16	6.86	5.84	4.06
131 - 150	100	0.27	0.23	0.17	6.86	5.84	4.32
151 - 160	100	0.27	0.24	0.17	6.86	6.10	4.32
161 - 180	100	0.27	0.24	0.18	6.86	6.10	4.57
181 - 200	100	0.27	0.25	0.19	6.86	6.35	4.83
201 - 220	50	0.27	0.22	0.15	6.86	5.59	3.81
221 - 240	50	0.27	0.22	0.16	6.86	5.59	4.06
241 - 270	50	0.27	0.23	0.16	6.86	5.84	4.06
271 - 300	50	0.27	0.23	0.17	6.86	5.84	4.32
301 - 360	50	0.27	0.24	0.18	6.86	6.10	4.57
361 - 400	50	0.27	0.25	0.19	6.86	6.35	4.83



J R MICA CAPACITORS

CAPACITANCE (pF)	WV (dc)	DIMENSIONS (inches)			DIMENSIONS (mm)		
		L Max	W Max	T Max	L Max	W Max	T Max
STYLE : D-07 (SINGLE DIPPED)							
1 - 62	500	0.31	0.25	0.12	7.87	6.35	3.05
63 - 110	500	0.32	0.25	0.13	8.18	6.35	3.30
111 - 180	500	0.32	0.25	0.14	8.18	6.35	3.56
181 - 220	500	0.33	0.25	0.15	8.38	6.35	3.81
221 - 360	500	0.34	0.25	0.16	8.64	6.35	4.06
361 - 510	500	0.34	0.27	0.16	8.64	6.86	4.06
511 - 660	300	0.34	0.27	0.16	8.64	6.86	4.06
661 - 820	300	0.34	0.28	0.16	8.64	7.11	4.06
821 - 940	100	0.34	0.28	0.17	8.64	7.11	4.06
941 - 1500	100	0.34	0.29	0.17	8.64	7.37	4.32
STYLE : D-10							
1 - 24	500	0.36	0.33	0.19	9.14	8.38	4.83
25 - 27	500	0.37	0.33	0.19	9.40	8.38	4.83
28 - 75	500	0.37	0.34	0.19	9.40	8.64	4.83
76 - 100	500	0.37	0.35	0.20	9.40	8.89	5.08
101 - 120	500	0.38	0.35	0.20	9.65	8.89	5.08
121 - 130	500	0.38	0.36	0.20	9.65	9.14	5.08
131 - 160	500	0.38	0.36	0.21	9.65	9.14	5.33
161 - 180	500	0.39	0.37	0.21	9.91	9.40	5.33
181 - 510	500	0.39	0.38	0.22	9.91	9.65	5.59
511 - 820	300	0.39	0.38	0.22	9.91	9.65	5.59
821 - 1500	100	0.39	0.38	0.22	9.91	9.65	5.59
STYLE : D-15							
1 - 62	500	0.45	0.36	0.17	11.43	9.14	4.32
63 - 82	500	0.45	0.36	0.18	11.43	9.14	4.57
83 - 100	500	0.46	0.36	0.18	11.68	9.14	4.57
101 - 130	500	0.46	0.37	0.18	11.68	9.40	4.57
131 - 180	500	0.46	0.37	0.19	11.68	9.40	4.83
181 - 200	500	0.46	0.38	0.19	11.68	9.65	4.83
201 - 240	500	0.46	0.38	0.20	11.68	9.65	5.08
241 - 330	500	0.47	0.39	0.21	11.94	9.91	5.33
331 - 390	500	0.47	0.40	0.22	11.94	10.16	5.59
391 - 430	500	0.48	0.40	0.23	12.19	10.16	5.84
431 - 470	500	0.48	0.41	0.23	12.19	10.41	5.84
471 - 510	500	0.49	0.42	0.24	12.45	10.67	6.10
511 - 680	300	0.47	0.39	0.21	11.94	9.91	5.33
681 - 750	300	0.47	0.40	0.22	11.94	10.16	5.59
751 - 820	300	0.47	0.40	0.23	11.94	10.16	5.84
821 - 910	100	0.48	0.41	0.23	12.19	10.41	5.84
911 - 1000	100	0.49	0.42	0.24	12.45	10.67	6.10
1001 - 1200	100	0.49	0.43	0.26	12.45	10.92	6.60
1201 - 1500	100	0.49	0.44	0.27	12.45	11.18	6.86



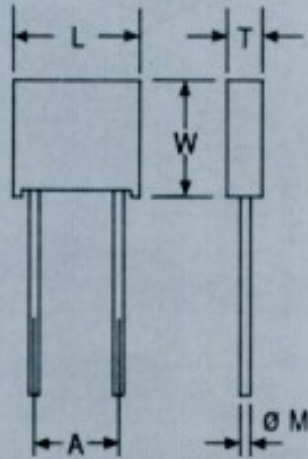
J R MICA CAPACITORS

CAPACITANCE (pF)	WV (dc)	DIMENSIONS (inches)			DIMENSIONS (mm)		
		L Max	W Max	T Max	L Max	W Max	T Max
STYLE : D-19							
100 - 330	500	0.64	0.50	0.19	16.26	12.70	4.83
331 - 470	500	0.64	0.51	0.20	16.26	12.95	5.08
471 - 560	500	0.65	0.51	0.20	16.51	12.95	5.08
561 - 620	500	0.65	0.51	0.20	16.51	12.95	5.08
621 - 680	500	0.65	0.51	0.21	16.51	12.95	5.33
681 - 820	500	0.65	0.51	0.21	16.51	12.95	5.33
821 - 910	500	0.65	0.51	0.21	16.51	12.95	5.33
911 - 1000	500	0.65	0.52	0.22	16.51	13.21	5.59
1001 - 1100	500	0.65	0.52	0.22	16.51	13.21	5.59
1101 - 1200	500	0.66	0.52	0.22	16.78	13.21	5.59
1201 - 1300	500	0.66	0.52	0.22	16.78	13.21	5.59
1301 - 1500	500	0.66	0.52	0.23	16.78	13.21	5.84
1501 - 1600	500	0.66	0.53	0.23	16.78	13.46	5.84
1601 - 1800	500	0.67	0.53	0.24	17.02	13.46	6.10
1801 - 2000	500	0.67	0.53	0.24	17.02	13.46	6.10
2001 - 2200	500	0.67	0.53	0.25	17.02	13.46	6.35
2201 - 2400	500	0.67	0.54	0.26	17.02	13.72	6.60
2401 - 2700	500	0.68	0.54	0.27	17.27	13.72	6.86
2701 - 3000	500	0.68	0.55	0.28	17.27	13.97	7.11
3001 - 3300	500	0.68	0.55	0.29	17.27	13.97	7.37
3301 - 3600	500	0.68	0.56	0.30	17.27	14.22	7.62
3601 - 3900	500	0.69	0.56	0.31	17.53	14.22	7.87
3901 - 4300	500	0.69	0.57	0.33	17.53	14.48	8.38
4301 - 4700	500	0.70	0.58	0.35	17.78	14.73	8.89
4701 - 5100	500	0.71	0.59	0.37	18.03	14.99	9.40
5101 - 5600	300	0.68	0.56	0.31	17.27	14.22	7.87
5601 - 6200	300	0.69	0.56	0.32	17.53	14.22	8.13
6201 - 6800	300	0.69	0.57	0.33	17.53	14.48	8.38
6801 - 7500	100	0.70	0.57	0.34	17.78	14.48	8.64
7501 - 8200	100	0.70	0.58	0.35	17.78	14.73	8.89
8201 - 9100	100	0.71	0.59	0.37	18.03	14.73	8.89
9101 - 10000	100	0.72	0.59	0.38	18.29	14.73	8.89
STYLE : D-20							
100 - 620	500	0.75	0.50	0.19	19.05	12.70	4.83
621 - 1200	500	0.75	0.51	0.20	19.05	12.95	5.08
1201 - 1600	500	0.75	0.51	0.21	19.05	12.95	5.33
1601 - 2200	500	0.76	0.52	0.22	19.30	13.21	5.59
2201 - 2400	500	0.77	0.53	0.25	19.56	13.46	6.35
2401 - 2700	500	0.77	0.54	0.26	19.56	13.72	6.60
2701 - 3000	500	0.77	0.54	0.27	19.56	13.72	6.86
3001 - 3300	500	0.78	0.55	0.28	19.81	13.97	7.11
3301 - 3600	500	0.78	0.55	0.29	19.81	13.97	7.37
3601 - 3900	500	0.78	0.56	0.30	19.81	14.22	7.62
3901 - 4300	500	0.78	0.56	0.31	19.81	14.22	7.87
4301 - 4700	500	0.79	0.56	0.32	20.07	14.22	8.13
4701 - 5100	500	0.79	0.57	0.33	20.07	14.48	8.38
5101 - 5600	500	0.79	0.57	0.34	20.07	14.48	8.64
5601 - 6200	500	0.79	0.58	0.35	20.07	14.73	8.89
6201 - 6800	500	0.80	0.59	0.37	20.32	14.99	9.40
6801 - 7500	500	0.80	0.60	0.39	20.32	15.24	9.91
7501 - 8200	500	0.81	0.61	0.41	20.57	15.49	10.41
8201 - 9100	500	0.81	0.62	0.43	20.57	15.75	10.42
9101 - 10000	500	0.82	0.63	0.45	20.83	16.00	11.43
10001 - 11000	300	0.80	0.59	0.38	20.32	14.99	9.65
11001 - 12300	300	0.81	0.60	0.40	20.57	15.24	10.16
12301 - 13000	100	0.80	0.59	0.38	20.32	14.99	9.65
13001 - 15000	100	0.81	0.60	0.40	20.57	15.24	10.16
15001 - 16000	100	0.81	0.61	0.41	20.57	15.49	10.41
16001 - 18000	100	0.82	0.62	0.44	20.83	15.75	11.18

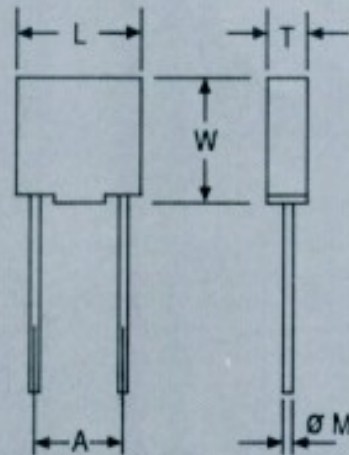


MOULDED RADIALS

J R MICA CAPACITORS



RM.10 - RM.50



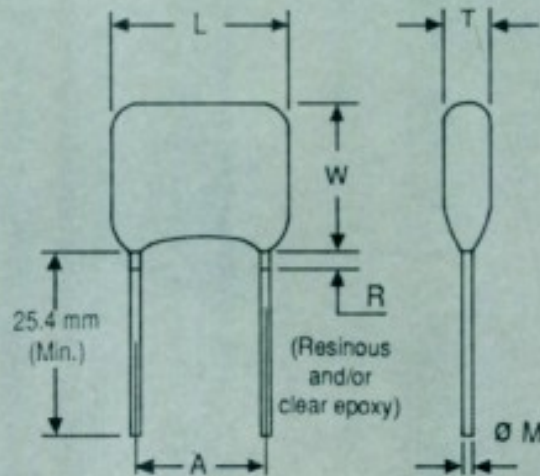
RM.05 - RM.08

STYLE	CAPACITANCE (pF)	WV (dc)	DIMENSIONS (mm)				
			L Max	W Max	T Max	A ± 0.3	M ± 0.05
RM-05	5 - 270	250	7.5	7.5	2.5	5.0	0.6
RM-06	5 - 820	250	9.5	9.0	2.5	5.0	0.6
RM-08	10 - 1800	250	9.5	10.5	2.5	5.0	0.6
RM-10	100 - 2000	250	12.7	12.2	3.4	10.0	0.8
RM-20	2000 - 10000	250	12.7	12.2	5.3	10.0	0.8
RM-30	10000 - 22000	125	12.7	12.2	7.8	10.0	0.8
RM-40	22000 - 33000	125	12.7	12.2	10.4	10.0	0.8
RM-50	33000 - 51000	250	22.0	12.2	10.4	20.0	0.8



MINIATURE DIPPED

J R MICA CAPACITORS



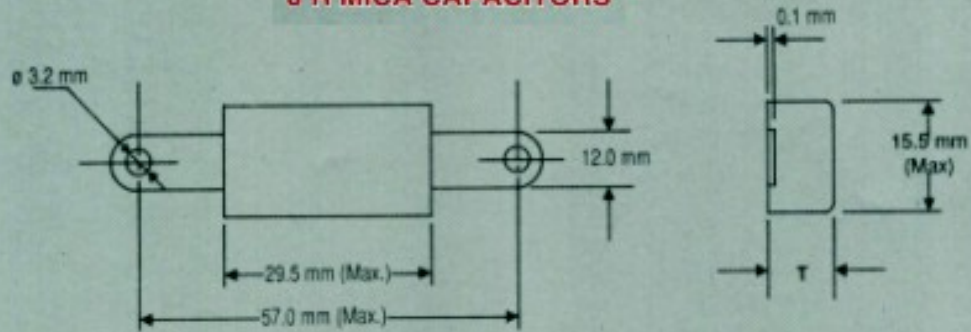
CAPACITANCE (pF)	WV (dc)	DIMENSIONS (mm)					
		L Max	W Max	T Max	R Max	A ± 0.79	M ± 0.05
STYLE : DS-05							
5 - 150	200	8.5	7.0	3.5	3.18	3.81	0.41
151 - 470	200	8.5	7.0	3.5	3.18	3.81	0.41
471 - 1000	200	8.5	7.5	4.5	3.18	3.81	0.41
STYLE : DS-08							
10 - 1800	200	10.0	10.0	4.5	3.18	5.08	0.64
1801 - 3300	100	10.0	10.0	4.5	3.18	5.08	0.64
STYLE : DS-12							
100 - 6800	200	13.0	12.0	6.0	3.58	5.08	0.64
6801 - 10000	100	13.0	12.0	6.0	3.58	5.08	0.64
STYLE : DS-20							
100 - 6800	200	13.0	12.0	6.0	3.58	10.16	0.81
6801 - 10000	100	13.0	13.0	7.0	3.58	10.16	0.81
10001 - 22000	50	14.0	14.0	10.0	3.58	10.16	0.81



MOULDED AXIALS SPECIALS

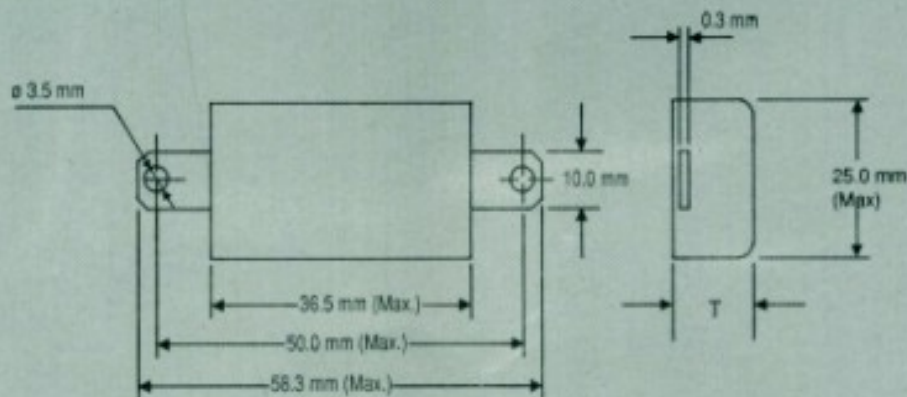
J R MICA CAPACITORS

CM-47



CAPACITANCE RANGE IN pF PER VOLTAGE			T MAX (mm)
300 V	500 V	1000 V	
2700 - 18000	2700 - 12000	1500 - 8200	5.3
18100 - 27000	12100 - 18000	8210 - 12000	6.3
27100 - 43000	18100 - 30000	12100 - 20000	7.3
43100 - 62000	30100 - 50000	20100 - 27000	9.3

CM-52



CAPACITANCE RANGE IN pF PER VOLTAGE					T MAX (mm)
500 V	1000 V	1500 V	2000 V	3000 V	
1200 - 27000	860 - 18000	560 - 7500	330 - 2700	100 - 820	7.5
27100 - 91000	18100 - 56000	7510 - 22000	2710 - 9100	821 - 2700	9.5
91100 - 120000	56100 - 82000	22100 - 36000	9110 - 16000	2710 - 4300	11.5
120100 - 180000	82100 - 100000	36100 - 47000	16100 - 22000	4310 - 6200	13.5
180100 - 220000	100100 - 130000	47100 - 62000			15.5



JSS STYLES

J R MICA CAPACITORS

STYLE	CAPACITANCE pF	TOLE- RANCE	CHARA- CTERIS- TICS	D.C. RATED VOL- TAGE	A ± 0.79 mm	M		L		T		W mm	R mm
						Min mm	Max mm	Min mm	Max mm	Min mm	Max mm		
JSS 50201													
CM05-A	1,1.5,2,2.5	D	C	300	3.05	0.35	0.45		6.90		2.80	4.85	2.0
CM05-A	3,3.5,4,4.5	D	C	300	3.05	0.35	0.45		6.90		2.80	4.85	2.0
CM05-A	5,6,7,8,9,10	D	C	300	3.05	0.35	0.45		6.90		2.80	4.85	2.0
CM05-A	11,12	J	C	300	3.05	0.35	0.45		6.90		2.80	4.85	2.0
CM05-B	15	J	C	300	3.05	0.35	0.45		6.90		3.05	4.85	2.0
CM05-C	18	J	C	300	3.05	0.35	0.45		6.90		3.05	5.10	2.0
CM05-C	20,22,24	J	E	300	3.05	0.35	0.45		6.90		3.05	5.10	2.0
CM05-D	27,30,33	GJ	E	300	3.05	0.35	0.45		6.90		3.30	5.10	2.0
CM05-E	36,39	GJ	E	300	3.05	0.35	0.45		6.90		3.30	5.35	2.0
CM05-F	43,47,51	GJ	E	300	3.05	0.35	0.45		6.90		3.60	5.35	2.0
CM05-G	56,62,68	FJ	E	300	3.05	0.35	0.45		6.90		3.80	5.60	2.0
CM05-G	220	FJ	F	50	3.05	0.35	0.45		6.90		3.80	5.60	2.0
CM05-H	75,82	FJ	E	300	3.05	0.35	0.45		6.90		4.10	5.85	2.0
CM05-H	130	FJ	F	100	3.05	0.35	0.45		6.90		4.10	5.85	2.0
CM05-H	270	FJ	F	50	3.05	0.35	0.45		6.90		4.10	5.85	2.0
CM05-J	91	FJ	F	300	3.05	0.35	0.45		6.90		4.35	5.85	2.0
CM05-J	150	FJ	F	100	3.05	0.35	0.45		6.90		4.35	5.85	2.0
CM05-J	300	FJ	F	50	3.05	0.35	0.45		6.90		4.35	5.85	2.0
CM05-K	100,110	FJ	F	300	3.05	0.35	0.45		6.90		4.60	6.10	2.0
CM05-K	170,180	FJ	F	100	3.05	0.35	0.45		6.90		4.60	6.10	2.0
CM05-K	330,360	FJ	F	50	3.05	0.35	0.45		6.90		4.60	6.10	2.0
CM05-L	120	FJ	F	300	3.05	0.35	0.45		6.90		4.85	6.35	2.0
CM05-L	200	FJ	F	100	3.05	0.35	0.45		6.90		4.85	6.35	2.0
CM05-L	390,400	FJ	F	50	3.05	0.35	0.45		6.90		4.85	6.35	2.0
CM05-M	160	FJ	F	100	3.05	0.35	0.45		6.90		4.35	6.10	2.0
CM05-N	240	FJ	F	50	3.05	0.35	0.45		6.90		4.10	5.60	2.0
CM01-A	1,5,10	D	C	500	3.81	0.35	0.44	7.62	9.14	2.54	4.83	8.38	3.18
CM01-A	12,15,18	J	C	500	3.81	0.35	0.44	7.62	9.14	2.54	4.83	8.38	3.18
CM01-A	22	J	E	500	3.81	0.35	0.44	7.62	9.14	2.54	4.83	8.38	3.18
CM01-B	27	GJ	E	500	3.81	0.35	0.44	7.62	9.40	2.54	4.83	8.38	3.18
CM01-C	33,39,47	GJ	E	500	3.81	0.35	0.44	7.62	9.40	2.54	4.83	8.64	3.18
CM01-C	56,68	FJ	E	500	3.81	0.35	0.44	7.62	9.40	2.54	4.83	8.64	3.18
CM01-D	82	FJ	E	500	3.81	0.35	0.44	7.62	9.40	2.79	5.08	8.89	3.18
CM01-D	100	FJ	F	500	3.81	0.35	0.44	7.62	9.40	2.79	5.08	8.89	3.18
CM01-E	120,150	FJ	F	500	3.81	0.35	0.44	7.62	9.65	2.79	5.08	8.89	3.18
CM01-G	180	FJ	F	500	3.81	0.35	0.44	7.62	9.91	3.05	5.33	9.40	3.18
CM01-H	220	FJ	F	500	3.81	0.35	0.44	7.62	9.91	3.56	5.59	9.65	3.18
CM01-H	270,330	FJ	F	300	3.81	0.35	0.44	7.62	9.91	3.56	5.59	9.65	3.18
CM01-H	390	FJ	F	100	3.81	0.35	0.44	7.62	9.91	3.56	5.59	9.65	3.18
CM01-J	1,5,10	D	C	500	5.72	0.55	0.66	10.16	11.43	2.29	4.32	9.14	3.18
CM01-J	12,15,18	J	C	500	5.72	0.55	0.66	10.16	11.43	2.29	4.32	9.14	3.18
CM01-J	22	J	E	500	5.72	0.55	0.66	10.16	11.43	2.29	4.32	9.14	3.18
CM01-J	27,33,39,47	GJ	E	500	5.72	0.55	0.66	10.16	11.43	2.29	4.32	9.14	3.18
CM01-J	56	FJ	E	500	5.72	0.55	0.66	10.16	11.43	2.29	4.32	9.14	3.18
CM01-K	68,82	FJ	E	500	5.72	0.55	0.66	10.16	11.43	2.41	4.57	9.14	3.18



J R MICA CAPACITORS

STYLE	CAPACITANCE pF	TOLERANCE	CHARACTERISTIC	D.C. RATED VOL- TAGE	A ± 0.79 mm	M		L		T		W		R	
						Min mm	Max mm	Min mm	Max mm	Min mm	Max mm	Min mm	Max mm	Min mm	Max mm
CM01-L	100	FJ	F	500	5.72	0.55	0.66	10.16	11.68	2.41	4.57	9.14	3.18		
CM01-M	120	FJ	F	500	5.72	0.55	0.66	10.16	11.68	2.41	4.57	9.40	3.18		
CM01-N	150,180	FJ	F	500	5.72	0.55	0.66	10.16	11.68	2.79	4.83	9.40	3.18		
CM01-P	220	FJ	F	500	5.72	0.55	0.66	10.16	11.68	2.79	5.06	9.65	3.18		
CM01-Q	270, 330	FJ	F	500	5.72	0.55	0.66	10.16	11.94	2.79	5.33	9.91	3.18		
CM01-R	390	FJ	F	500	5.72	0.55	0.66	10.16	11.94	3.05	5.59	10.16	3.18		
CM01-S	470	FJ	F	500	8.89	0.75	0.88	13.97	16.26	2.29	5.08	12.95	3.58		
CM01-T	560	FJ	F	500	8.89	0.75	0.88	14.22	16.51	2.29	5.08	12.95	3.58		
CM01-U	680,820	FJ	F	500	8.89	0.75	0.88	14.22	16.51	2.54	5.33	12.95	3.58		
CM01-V	1000	FJ	F	500	8.89	0.75	0.88	14.22	16.51	2.79	5.59	13.21	3.58		
CM01-W	1200	FJ	F	500	8.89	0.75	0.88	14.48	16.76	2.79	5.59	13.21	3.58		
CM01-X	1500	FJ	F	500	8.89	0.75	0.88	14.48	16.76	3.05	5.84	13.21	3.58		
CM01-Y	1800	FJ	F	500	8.89	0.75	0.88	14.73	17.02	3.30	6.10	13.46	3.58		
CM01-Z	2200	FJ	F	500	8.89	0.75	0.88	14.73	17.02	3.56	6.35	13.46	3.58		
CM01-AA	2700	FJ	F	500	8.89	0.75	0.88	14.99	17.27	4.06	6.68	13.72	3.58		
CM01-BB	3300	FJ	F	500	8.89	0.75	0.88	14.99	17.27	4.57	7.37	13.97	3.58		
CM01-CC	3900	FJ	F	500	8.89	0.75	0.88	15.24	17.53	5.08	7.87	14.22	3.58		
CM01-DD	4700	FJ	F	500	8.89	0.75	0.88	15.49	17.78	5.59	8.89	14.73	3.58		
CM01-EE	5600	FJ	F	500	10.80	0.95	1.10	17.27	19.81	3.81	7.37	22.10	3.58		
CM01-FF	6800	FJ	F	500	10.80	0.95	1.10	17.27	19.81	3.81	7.62	22.10	3.58		
CM01-GG	8200	FJ	F	500	10.80	0.95	1.10	17.53	20.07	3.81	8.13	22.35	3.58		
CM01-HH	10000	FJ	F	500	10.80	0.95	1.10	17.78	20.32	5.08	8.64	22.61	3.58		
CM01-JJ	12000	FJ	F	500	10.80	0.95	1.10	17.78	20.32	5.08	9.14	22.61	3.58		
CM01-KK	15000	FJ	F	500	10.80	0.95	1.10	18.03	20.57	6.35	9.91	22.86	3.58		
CM01-LL	18000	FJ	F	500	10.80	0.95	1.10	18.29	20.83	6.35	10.92	23.11	3.58		
CM01-MM	22000	FJ	F	500	26.67	0.95	1.10	33.02	36.07	4.57	7.87	22.35	3.58		
CM01-NN	27000	FJ	F	500	26.67	0.95	1.10	33.53	36.32	4.57	8.38	22.35	3.58		
CM01-PP	33000	FJ	F	500	26.67	0.95	1.10	33.78	36.58	4.57	9.14	22.61	3.58		
CM01-QQ	39000	FJ	F	500	26.67	0.95	1.10	34.04	36.83	5.59	10.16	20.86	3.58		
CM01-RR	47000	FJ	F	500	26.67	0.95	1.10	34.54	37.34	6.35	11.43	23.11	3.58		
CM01-SS	56000	FJ	F	300	26.67	0.95	1.10	34.29	37.08	5.72	10.67	23.11	3.58		
CM01-TT	68000	FJ	F	300	26.67	0.95	1.10	34.80	37.59	6.60	11.94	23.37	3.58		
CM01-UU	82000	FJ	F	100	26.67	0.95	1.10	34.80	37.59	7.87	11.68	23.37	3.58		

STYLE	CAPACITANCE pF	TOLERANCE	CHARACTERISTICS	D.C. RATED VOL- TAGE	L		W		T		B Max mm	M mm
					Min mm	Max mm	Min mm	Max mm	Min mm	Max mm		
CM02-A	1 - 5	D	C	500	12.19	13.97	6.86	7.87	3.56	5.59	1.52	+ 0.06 0.6 - 0.05
	10 - 24	J	C	500	12.19	13.97	6.86	7.87	3.56	5.59	1.52	+ 0.06 0.6 - 0.05
	27 - 47	GJ	CE	500	12.19	13.97	6.86	7.87	3.56	5.59	1.52	+ 0.06 0.6 - 0.05
	51 - 510	FGJ	CEF	500	12.19	13.97	6.86	7.87	3.56	5.59	1.52	+ 0.06 0.6 - 0.05
CM02-B	562 - 1000	FGJ	F	500	17.02	20.07	10.41	11.94	4.06	5.59	1.52	+ 0.08 0.8 - 0.05
CM02-C	1100 - 3300	FGJ	F	500	19.56	21.84	19.56	21.84	5.84	7.11	2.03	+ 0.10 1.0 - 0.05
CM02-D	3600 - 8200	FGJ	F	500	19.56	21.84	19.56	21.84	7.11	9.14	2.03	+ 0.10 1.0 - 0.05
CM02-D	9100 - 15000	FGJ	F	300	19.56	21.84	19.56	21.84	7.11	9.14	2.03	+ 0.10 1.0 - 0.05



APPLICABLE SPECIFICATIONS AND DOCUMENTS

MIL-C-5	General specifications for Capacitors, Fixed, Mica Dielectric
MIL-C-5/1	Capacitors, Fixed, Mica Dielectric Style CM 15
MIL-C-5/2	Capacitors, Fixed, Mica Dielectric Style CM 20
MIL-C-5/4	Capacitors, Fixed, Mica Dielectric Style CM 30
MIL-C-5/5	Capacitors, Fixed, Mica Dielectric Style CM 35
MIL-C-5/18	Capacitors, Fixed, Mica Dielectric Styles CM04, CM05, CM06, CM07, CM08 and CM09
MIL-C-39001	General specifications for Mica Capacitors, Established Reliability
MIL-C-87164 (USAF)	General specifications for Capacitors, Fixed, Mica Dielectric, High Reliability
MIL-STD-105	Sampling procedures and Tables for Inspection by Attributes
MIL-STD-690	Sampling procedures for established level of reliability
MIL-STD-202	Test Methods for electronic and electrical component parts
JSS 50200	General requirements for Capacitors, Fixed
JSS 50201	Detail specifications for Capacitors, Fixed, Mica Dielectric
JSS 50101	Environmental test methods for service components
IEC-68	Environmental Testing procedures for components
IEC 384-1	Fixed Capacitors, Terminology, and Methods of Tests
IEC 384-5	Sectional specifications for Mica Capacitors with rated voltage not exceeding 3000 V
IS/IEC QC 001001	Basic rules of the IEC Quality Assessment System for Electronic Components (IECQ)
IS/IEC QC 001002	Rules of Procedures of the IEC Quality Assurance System for Electronic Components (IECQ)
PQC 47/IN 001	Detail specifications for Fixed Mica Dielectric DC Capacitors, Axial Moulded type in accordance with Generic specifications QC 300000 and Sectional specification PQC 46
ISO 9001-2008	Quality Management System



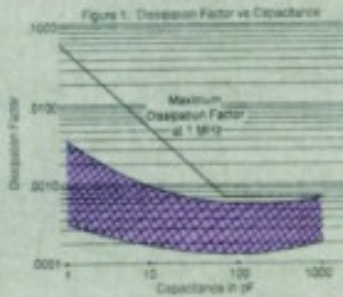
TECHNICAL DATA SUMMARY

PARAMETER	AQL OR C/N	IL OR P	DIPPED RADIAL	MOULDED AXIAL	MOULDED RADIAL	MINIATURE DIPPED	MOULDED AXIAL (CM47 & CM52)	
DIMENSIONS & VISUAL	1%	II	As per details listed for different styles					
CAPACITANCE TOLERANCE	0.65%	II	± 0.5 pF, ± 1.0 pF, ± 0.5%, ± 1%, ± 2%, ± 5%, ± 10%, ± 20% (Minimum practical tolerance available is greater of ± 0.5% or ± 0.5 pF)					
MEASUREMENT FREQUENCY			C ≤ 1000 pF at 1 MHz; C > 1000 pF at 1 KHz.					
DISSIPATION FACTOR	65%	II	See figure 1 & 2					
					C (pF)	DF	C (pF)	DF
					≤ 100	0.003	≤ 50	0.01
					> 100	0.001	> 50	0.005
					≤ 10000	0.001		≤ 10000
					> 10000	0.0007		> 10000
VOLTAGE PROOF/DIELECTRIC WITHSTANDING VOLTAGE	65%	II	Twice the rated voltage for 1-5 secs.			Twice the rated voltage for 1-3 secs.		
RATED D.C. VOLTAGE ALLOWED A.C. VOLTAGE (50 Hz)			100	125	250	300	500	1000
			40	80	175	150	250	350
			(d.c. voltage ratings are given in detailed listings and should not be exceeded by the sum of d.c. & peak a.c. voltages)					
INSULATION RESISTANCE	65%	II	100 G for C ≤ 10000 pF, 1000 megohm-microfarad for C > 10000 pF at 25°C					
TEMPERATURE COEFFICIENT & CAPACITANCE DRIFT	2.5%	S3	C, D, E, F	C, D, E, F	C, D, E, F	D	C, D, E, F	
OPERATING TEMPERATURE			O, P	N, O	L, O	O	L	
CLIMATIC CATEGORY			55/125/56 55/150/56	55/85/56 55/125/56	40/85/21 55/125/21	55/125/21	40/85/21	
RESISTANCE TO SOLVENTS			MIL-STD-202, method 215; JSS-50101, test 16.					
SOLDERABILITY	2.5%	S3	(Solder bath method) MIL-STD-202, method 208; JSS-50101, test 19; IEC-68-2-20 Ta.					
IMPACT (BUMP)	1/12	3	JSS-50101, test 11.					
ROBUSTNESS OF TERMINATIONS/ TERMINAL STRENGTH	1/12	3	MIL-STD-202, method 211; JSS-50101, test 17, procedure I, II & IV as applicable; IEC-68-2-21, Ua, Ub, Uc.					
RESISTANCE TO SOLDERING HEAT	1/9	6	MIL-STD-202, method 210, condition B; JSS-50101, test 15, procedure 1; IEC-68-2-20 Tb, method 1A.					
VIBRATION	1/18	6	MIL-STD-202, method 204, condition D; JSS-50101, test 23, (V-14); IEC-68-2-6.					
IMPACT (SHOCK)	1/18	6	MIL-STD-202, method 213; JSS-50101, test 12; IEC-68-2-27.					
DAMP HEAT (STEADY STATE)	1/15	6	JSS-50101, test 7, Severity H-13; IEC-68-2-3.					
DAMP HEAT (CYCLIC) / MOISTURE RESISTANCE	1/18	6	MIL-STD-202, method 106; JSS-50101, test 5; IEC-68-2-30.					
ACCELERATION (STEADY STATE)	1/18	6	JSS-50101, test 1, Severity A12.					
BAROMETRIC PRESSURE / AIR PRESSURE (LOW)	2/27	6	MIL-STD-202, method 105, condition D; JSS-50101, test 2, (P19); IEC-68-2-13.					
ENDURANCE/LIFE	1/21	6	MIL-STD-202, method 106; JSS-50101, test 13; IEC-384-1.					
TEMPERATURE CYCLING/ RAPID CHANGE OF TEMPERATURE	1/18	6	MIL-STD-202, method 107; JSS-50101, test 20, Procedure I; IEC-68-2-14.					

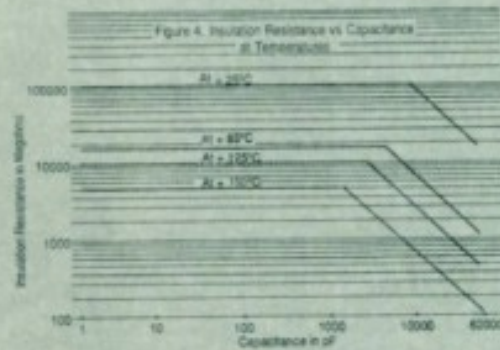
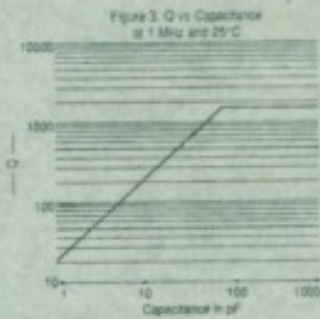
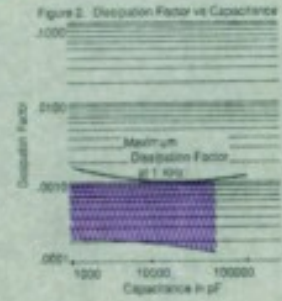
AQL - Acceptable Quality Level ; IL - Inspection Level ; C - Permitted No. of defects ; N - Sample size ; P - Periodicity in months.



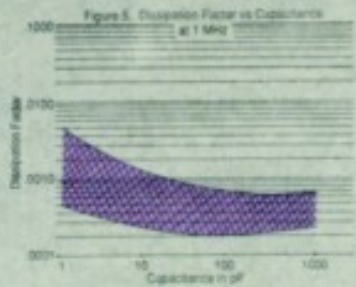
DIPPED RADIALS & MOULDED AXIALS



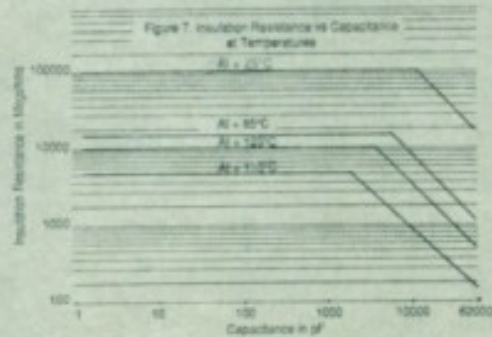
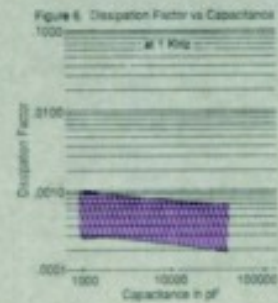
Dissipation factor of 90% of the capacitors will fall within the hatched area.



MOULDED RADIALS & MINIATURE DIPPED



Dissipation factor of 90% of the capacitors will fall within the hatched area.





Approvals, Certifications and Listings

MIL-C-5-E



IECQ



ISO 9001-2008



JSS 50201



*C.A.C.T. DEPT. OF
TELECOMMUNICATION,
GOVT. OF INDIA*



BHARAT ELECTRONICS LTD., INDIA



*VIKRAM SARABHAI SPACE CENTRE,
INDIA*



INDIAN SPACE RESEARCH ORGANISATION



JINDAL RECTIFIERS QUALITY POLICY

We hereby pledge to achieve complete customer satisfaction through excellence in quality. We wish to achieve this by :

- ❖ Motivation of workforce committed to continuous improvement in working methods.
- ❖ Working as a well-knit team to ensure that quality objectives are met.
- ❖ Conforming suppliers to continuously work on improvement in quality standards

Sharad Goel
C.E.O.



For further information, special requirements, catalogues, prices etc., Please contact our Marketing Division.

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