

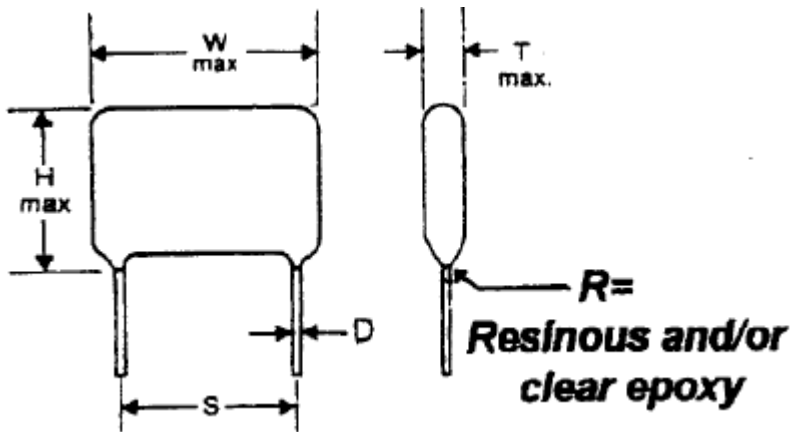
Professionally approved products.

## Datasheet

# 10nF 500 V dc Mica Capacitor

RS Stock number [495-953](#)

Dimensions: mm



Style	<u>S</u> +0.79	<u>D</u> +0.05	<u>R</u> Max
D15	5.72	0.64	3.18
D19	8.89	0.81	3.58
D20	10.80	0.81	3.58
D30	10.80	1.02	3.58
D42	26.67	1.02	3.58

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### Specifications:

Capacitance Tolerance:	+/-0.5pF where C < 50pF +/-1% where C > 50pF
Temperature Range:	-40°C to +85°C
Rated Voltage:	500V DC
Insulation Resistance:	100 G for C < 10000pF, 1000 Megohm Microfarad for C > 10000 pF @ 25C
Lead Length:	25mm Min
Temperature Coefficient:	2.2pF – 18pF -200ppm/+200ppm 22pF – 68pF -20ppm/+100ppm 82pF – 47nF -0ppm/+70ppm

### Markings:

#### Value

The capacitance value in picofarads is indicated using three digits. The first two digits represent the significant figures of the value, with the third digit specifying the number of zeroes to follow. For values less than 10pF, the decimal point between the two significant figures is indicated using a “p”, eg 5p6 indicates 5.6pF.

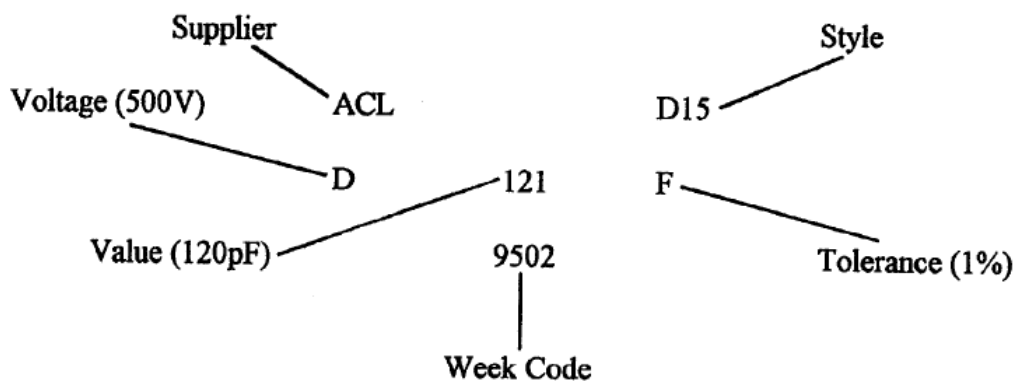
#### Tolerance

“B” indicates  $\pm 0.5\text{pF}$ , “F” indicates  $\pm 1\%$ .

#### Voltage

“D” indicates a working voltage of 500VDC

### Example of Markings.



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### Body Sizes

Style	Capacitance (pF)	W mm(max)	H mm(max)	T mm(max)
D15	2.2	11.43	9.14	4.32
"	3.3	11.43	9.14	4.32
"	4.7	11.43	9.14	4.32
"	6.8	11.43	9.14	4.32
"	10	11.43	9.14	4.32
"	15	11.43	9.14	4.32
"	18	11.43	9.14	4.32
"	22	11.43	9.14	4.32
"	27	11.43	9.14	4.32
"	33	11.43	9.14	4.32
"	39	11.43	9.14	4.32
"	47	11.43	9.14	4.32
"	56	11.43	9.14	4.32
"	68	11.43	9.14	4.32
"	82	11.43	9.14	4.57
"	100	11.68	9.14	4.57
"	120	11.68	9.4	4.57
"	150	11.68	9.4	4.83
"	180	11.68	9.4	4.83
"	220	11.68	9.65	5.08
"	270	11.94	9.91	5.33
"	330	11.94	9.91	5.33
"	390	11.94	10.16	5.59
"	470	12.19	10.14	5.84
D19	560	16.51	12.95	5.08
"	680	16.51	12.95	5.33
"	820	16.51	12.95	5.33
"	1000	16.51	13.21	5.59
"	1500	16.78	13.21	5.84
"	1800	17.02	13.46	6.1
"	2200	17.02	13.46	6.35
"	2700	17.27	13.72	6.86
"	3600	17.27	14.22	7.62
"	4700	17.78	14.73	8.89
D20	6800	20.32	14.99	9.4
"	8200	20.57	15.49	10.41
"	10000	20.83	16	11.43
D30	22000	21.34	23.62	12.19
D42	33000	36.58	22.61	9.14
"	47000	37.34	23.11	11.43