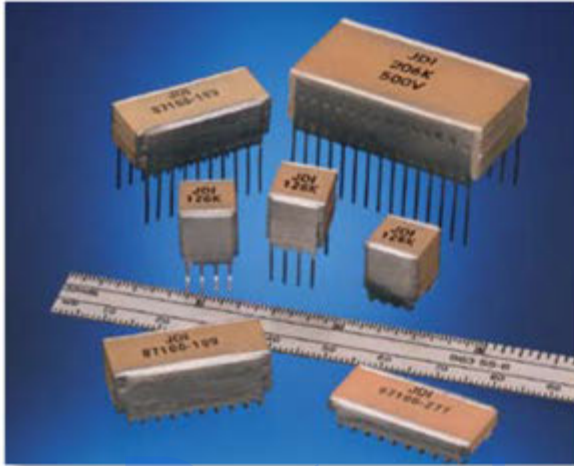


## HIGH TEMPERATURE STACKED CAPACITORS



### KEY FEATURES

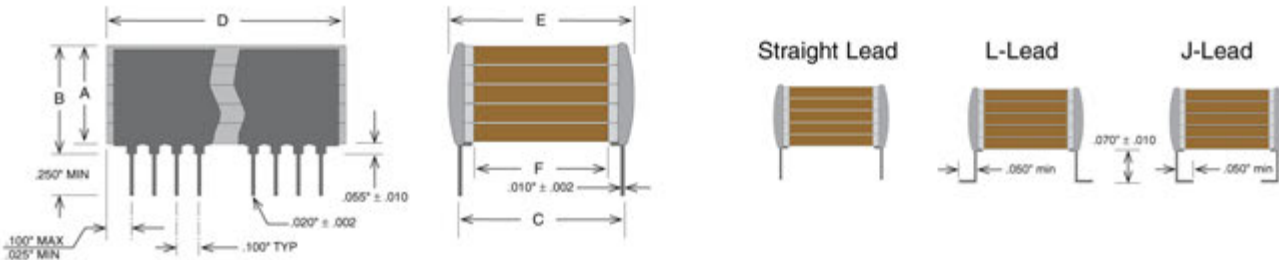
- For Use at Temperatures Up to 200°C
- Rated Working Voltages from 50V to 200V
- Rugged Stack with Hi-Temp Lead-Attachment
- MLC Designs Utilizing Military Grade Ceramics
- Custom Sizes, Voltages, and Values Available

### APPLICATIONS

- For High Temperature Applications Such As:
  - Oil Well Logging (Downhole)
  - Geophysical Probes
  - Jet Engine Controls

Datasheet.Directory

### MECHANICAL CHARACTERISTICS



### HOW TO ORDER

101	T23	W	106	K	J	4	S
<b>VOLTAGE</b> Standard Voltages: 500 = 50 V 101 = 100 V 201 = 200 V	<b>CASE SIZE</b> See Chart	<b>DIELECTRIC</b> N = NPO W = X7R	<b>CAPACITANCE</b> 1st two digits are significant; third digit denotes number of zeros. 103 = .01 μF 104 = 0.1 μF 105 = 1.0 μF 106 = 10 μF	<b>TOLERANCE</b> J = ± 5% * K = ± 10% M = ± 20% * (NPO only)	<b>LEAD STYLE</b> J = "J" Leads (formed in) L = "L" Leads (formed out) N = Straight Lead	<b>MARKING</b> 3 = Special Mark 4 = Standard Mark 6 = EIA 2-digit	<b>SPECIAL CODE</b> S = Other Special

Example Part number written: 101T23W106KJ4 = Rated 100 VDC@200°C, 10μF± 10% X7R in T23 size.

## DIELECTRIC CHARACTERISTICS

TEMPERATURE COEFFICIENT:

CAP DROP AT 200°C:

DISSIPATION FACTOR:

INSULATION RESISTANCE:

@25 °C

INSULATION RESISTANCE:

@200 °C

DIELECTRIC STRENGTH:

TEST PARAMETERS:

### NPO DIELECTRIC

0 ± 30 ppm, -55 to 125°C

minus 0.5% max

.001 (0.1%) max, 1KHz, 25°C

1000 Ohm-Farads or 100 Gigohms

whichever is less @ 25°C, WVDC

1 Ohm-Farads or 100 Megohms

whichever is less @ 200°C, WVDC

2.5 X WVDC, 25°C, 50 mA max

1KHz ± 50Hz, 1.0±0.2 VRMS, 25°C

### X7R DIELECTRIC

0 ± 15% , -55 to 125°C

minus 45% max

.025 (2.5%) max, 1KHz, 25°C

1000 Ohm-Farads or 100 Gigohms

whichever is less @ 25°C, WVDC

1 Ohm-Farads or 100 Megohms

whichever is less @ 200°C, WVDC

2.5 X WVDC, 25°C, 50 mA max

1KHz ± 50Hz, 1.0±0.2 VRMS, 25°C

## CAPACITANCE / VOLTAGE SELECTION

Case Size	NPO Max Capacitance (µF)			X7R Max Capacitance (µF)		
	50 V	100 V	200 V	50 V	100 V	200 V
T05	.056	.047	.022	1.20	0.68	0.33
T25	0.10	.082	.039	2.20	1.20	0.68
T35	0.15	0.12	.068	3.30	1.80	1.00
T45	0.22	0.18	.082	4.70	2.70	1.20
T55	0.27	0.22	0.10	5.60	3.30	1.50
T04	0.12	0.10	.047	2.70	1.50	0.82
T24	0.22	0.18	.082	4.70	2.70	1.50
T34	0.33	0.27	0.12	8.20	3.90	2.20
T44	0.47	0.39	0.18	12.0	5.60	3.30
T54	0.56	0.56	0.27	15.0	8.20	3.90
T03	0.47	0.39	0.22	10.0	5.60	2.70
T23	0.82	0.68	0.39	18.0	10.0	4.70
T33	1.20	1.00	0.68	27.0	15.0	8.20
T43	1.80	1.50	0.82	39.0	22.0	10.0
T53	2.20	1.80	1.00	47.0	27.0	12.0

## MECHANICAL CHARACTERISTICS

Case Size	A	B	C ±.025	D	D	E	F	Leads per side
	(max.)"	(max.)"		(min.)"	(max.)"	(max.)"	(min.)"	
T05	.120	.185	.250	.224	.275	.300	.080	3
T25	.240	.305						
T35	.360	.425						
T45	.480	.545						
T55	.650	.715						
T04	.120	.185	.400	.350	.425	.440	.180	4
T24	.240	.305						
T34	.360	.425						
T44	.480	.545						
T54	.650	.715						
T03	.120	.185	.450	.950	1.075	.500	.180	10
T23	.240	.305						
T33	.360	.425						
T43	.480	.545						
T53	.650	.715						