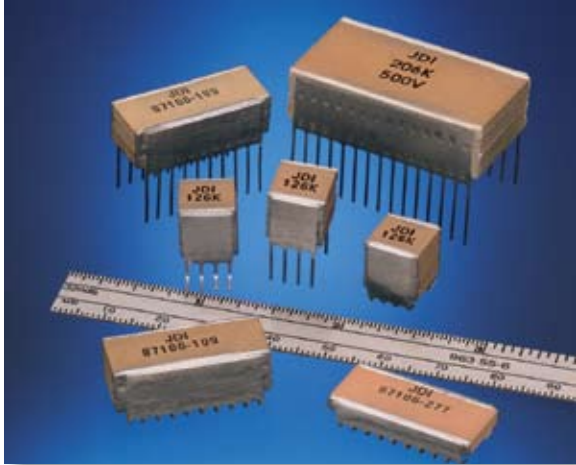


HIGH TEMPERATURE STACKED CAPACITORS



KEY FEATURES

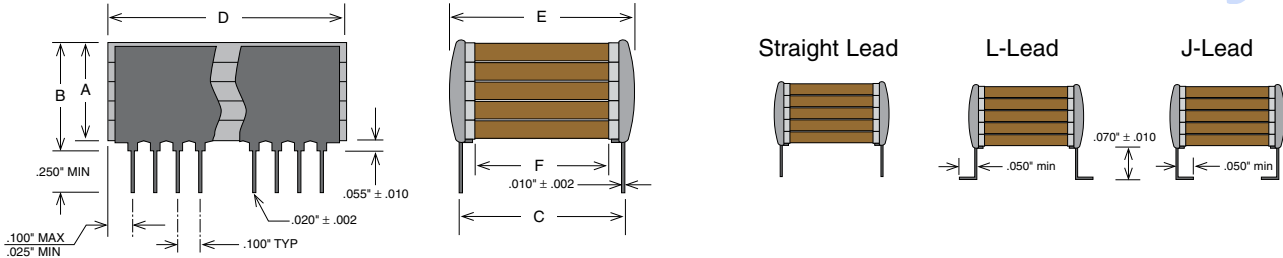
- For Use at Temperatures Up to 200°C
- Rated Working Voltages from 50V to 200V
- Rugged Stack with Hi-Temp Lead-Attachment
- MLC Designs Utilizing Military Grade Ceramics
- Custom Sizes, Voltages, and Values Available

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

Example Part number written: 101T23W106KJ4 = Rated 100 VDC@200°C, 10 μ F \pm 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	D	D	E	F	Leads per side
	(max.™)	(max.™)	±.025	(min.™)	(max.™)	(max.™)	(min.™)	
T05	.120	.185						
T25	.240	.305						
T35	.360	.425	.250	.224	.275	.300	.080	3
T45	.480	.545						
T55	.650	.715						
T04	.120	.185						
T24	.240	.305						
T34	.360	.425	.400	.350	.425	.440	.180	4
T44	.480	.545						
T54	.650	.715						
T03	.120	.185						
T23	.240	.305						
T33	.360	.425	.450	.950	1.075	.500	.180	10
T43	.480	.545						
T53	.650	.715						