MTP

Vishay Sprague

Wet Tantalum Capacitors
Subminiature, Axial Leads

FEATURES

- Maximum CV/Unit volume
- Ruggedized construction
- Low dissipation factor
- Low DC leakage
- 100% 25°C DCL screening
- 100% voltage age @ 85°C - 8 hours
- 100% cap & DF screening

PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55°C to + 85°C
Voltage Range: 6 to 60VDC
Reverse Voltage: None
Capacitance Range: 3.3µF to 470µF
Tolerance Range: ± 10%, ± 20%
DC Leakage:
At + 25°C: 2.0µA max
At + 85°C: 6.0 to 10.0µA max

MAX RMS RIPPLE CURRENT @ 85°C				
Case Code	D	A	B	C
Milliamps	7.5	12.5	50	140

Case Sizes: (Four) .115 x .300 to .225 x .778

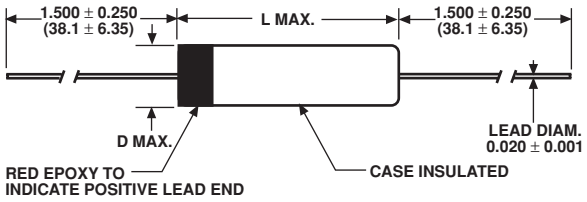
APPLICATIONS

- Timing Circuits
- Filter Coupling
- Energy Storage
- By-Pass Circuits

ORDERING INFORMATION

MTP	156	K	006	P	1	D
MODEL	CAPACITANCE CODE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING	CASE CODE	STYLE NUMBER	CASE SIZE CODE
MTP Sub-miniature	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	M = ± 20% K = ± 10%	This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating.	P = Polar	1 = Mylar Sleeve	

DIMENSIONS in inches [millimeters]



	D	L	APPROX WT
Case	**Inches [mm]**	**Inches [mm]**	**Grams***
D	0.115 [2.92]	0.300 [7.62]	0.40
A	0.115 [2.92]	0.403 [10.23]	0.50
B	0.145 [3.68]	0.600 [15.24]	1.00
C	0.225 [5.72]	0.778 [19.76]	2.60

*1 Gram = .035 oz.

STANDARD RATINGS

CAP (µF)	VOLTS DC	CASE CODE	PART NUMBER	MAX DCL µA		MAX ESR Ω	MAX Z Ω	MAX % °C from + 25°C	
				+ 25°C	+ 85°C	+ 25°C	- 55°C	to - 55°C	to + 85°C
15	6	D	MTP156*006P1D	2.0	6.0	15.9	300	-40	+15
47	6	A	MTP476*006P1A	2.0	6.0	9.6	85	-60	+15
150	6	B	MTP157*006P1B	2.0	8.0	3.9	35	-50	+15
180	6	B	MTP187*006P1B	2.0	8.0	3.4	32	-50	+15
450	6	C	MTP457*006P1C	2.0	10.0	1.9	25	-60	+15
470	6	C	MTP477*006P1C	2.0	10.0	1.8	23	-60	+15
10	10	D	MTP106*010P1D	2.0	6.0	18.6	380	-40	+15
33	10	A	MTP336*010P1A	2.0	6.0	11.3	100	-40	+15
100	10	B	MTP107*010P1B	2.0	8.0	4.0	46	-45	+15
120	10	B	MTP127*010P1B	2.0	8.0	3.5	42	-50	+15
300	10	C	MTP307*010P1C	2.0	10.0	1.8	31	-60	+15
330	10	C	MTP337*010P1C	2.0	10.0	1.6	31	-60	+15
22	15	A	MTP226*015P1A	2.0	6	12.1	120	-40	+12
68	15	B	MTP686*015P1B	2.0	8.0	6.2	58	-45	+12
80	15	B	MTP806*015P1B	2.0	8.0	5.3	50	-45	+12
200	15	C	MTP207*015P1C	2.0	10.0	2.0	37	-50	+12
220	15	C	MTP227*015P1C	2.0	10.0	1.8	36	-50	+12
6.8	20	D	MTP685*020P1D	2.0	6.0	27.3	445	-35	+11
15	20	A	MTP156*020P1A	2.0	6.0	17.7	150	-40	+11
47	20	B	MTP476*020P1B	2.0	8.0	6.8	73	-40	+11
60	20	B	MTP606*020P1B	2.0	8.0	7.1	60	-45	+11
150	20	C	MTP157*020P1C	2.0	10.0	2.7	38	-50	+11
6	30	D	MTP605*030P1D	2.0	6.0	30.9	459	-40	+10
10	30	A	MTP106*030P1A	2.0	6.0	21.2	200	-35	+10
45	30	B	MTP456*030P1B	2.0	8.0	7.1	80	-35	+10
120	30	C	MTP127*030P1C	2.0	10.0	3.3	42	-45	+10
4.7	35	D	MTP475*035P1D	2.0	6.0	39.5	570	-30	+10
10	35	A	MTP106*035P1A	2.0	6.0	21.2	240	-35	+10
100	35	C	MTP107*035P1C	2.0	10.0	4.0	48	-45	+10
4	50	D	MTP405*050P1D	2.0	6.0	39.8	600	-30	+10
6.8	50	A	MTP685*050P1A	2.0	6.0	31.2	310	-30	+10
30	50	B	MTP306*050P1B	2.0	8.0	9.7	120	-30	+10
33	50	B	MTP336*050P1B	2.0	8.0	8.8	120	-30	+10
68	50	C	MTP686*050P1C	2.0	10.0	4.3	54	-40	+10
78	50	C	MTP786*050P1C	2.0	10.0	3.7	52	-40	+10
3.3	60	D	MTP335*060P1D	2.0	6.0	48.2	680	-25	+9
4.7	60	A	MTP475*060P1A	2.0	6.0	39.5	400	-30	+9
6.8	60	A	MTP685*060P1A	2.0	6.0	31.2	367	-30	+9
10	60	B	MTP106*060P1B	2.0	8.0	23.9	217	-35	+9
15	60	B	MTP156*060P1B	2.0	8.0	17.7	174	-35	+9
22	60	B	MTP226*060P1B	2.0	8.0	14.5	140	-30	+9
33	60	C	MTP336*060P1C	2.0	10.0	7.2	75	-35	+9
47	60	C	MTP476*060P1C	2.0	10.0	5.6	62	-40	+9
68	60	C	MTP686*060P1C	2.0	10.0	4.3	51	-40	+9

* Insert Appropriate Letter Code For Tolerance: M = ± 20%, K = ± 10%

STANDARD REEL SPECIFICATIONS

CASE	STANDARD REEL QUANTITY (PCS)*
D	3500
A	3500
B	2000
C	700

*12" Reel Size