

MTX series

Wide temperature RoHS compliant

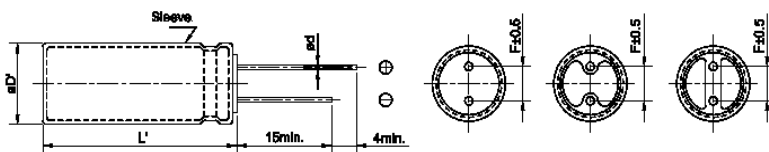
- 130°C 2,000~5,000Hrs assured.
- High reliability high temperature
- RoHS compliant
- Halogen-free capacitors are also available.



Specifications

Item	Characteristics
Rated Voltage Range	10 ~ 100 Vdc
Operating Temperature Range	-40 ~ +130°C
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)
Leakage Current	I=0.01CV(μA)or 3μA, whichever is greater Where, C:Nominal capacitance(μF), V:Rated voltage(VDC) (at 20°C, 2 minutes)
Dissipation Factor(Tanδ)	Rated Voltage(VDC)
	Tanδ(Max.)
Temperature characteristics (Max,impedance ratio)	Rated Voltage(VDC)
	Z(-25°C)/Z(20°C)
	Z(-40°C)/Z(20°C)
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for specified life times at 130°C. Capacitance change ≤ ±30% of the initial value Tanδ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 130°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤ ±30% of the initial value Tanδ ≤ 300% of the initial specified value Leakage current ≤ 500% of the initial specified value

Dimension

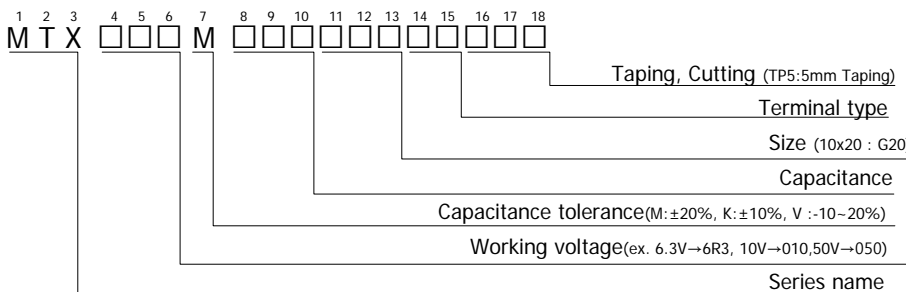


Unit (mm)

ØD	5	6.3	8	10	12.5	16	18	22
Ød	0.5	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0
ØD'	ØD+0.5 max.							
L'	L+1.5 max.				L+2.0 max.			

•Printed gold color letter on PET black sleeve

Code numbering system



Ø5	D
Ø6.3	E
Ø8	F
Ø10	G
Ø12.5	X
Ø16	J
Ø18	K
Ø22	M

MTX series

Standard Rating

VV (Vdc)	Cap (µF)	Size ØxL (mm)	Tanδ	Ripple Current (mA _{rms} /130°C,100kHz)	Code No
10	330	8 x 11.5	0.20	364	MTX010□331F12CS□□□
	470	10 x 12.5	0.20	626	MTX010□471G13CS□□□
	1,000	10 x 20	0.20	960	MTX010□102G20CS□□□
	2,200	12.5 x 25	0.22	1,444	MTX010□222X25CS□□□
	3,300	16 x 25	0.24	1,919	MTX010□332J25CS□□□
	4,700	16 x 30	0.26	2,323	MTX010□472J30CS□□□
16	330	8 x 11.5	0.16	364	MTX016□331F12CS□□□
	470	10 x 12.5	0.16	626	MTX016□471G13CS□□□
	1,000	10 x 20	0.16	970	MTX016□102G20CS□□□
	2,200	12.5 x 25	0.18	1,444	MTX016□222X25CS□□□
	3,300	16 x 30	0.20	2,323	MTX016□332J30CS□□□
	4,700	16 x 35	0.22	2,576	MTX016□472J35CS□□□
25	220	8 x 11.5	0.14	364	MTX025□221F12CS□□□
	330	10 x 12.5	0.14	626	MTX025□331G13CS□□□
	470	10 x 16	0.14	808	MTX025□471G16CS□□□
	1,000	12.5 x 20	0.14	1,111	MTX025□102X20CS□□□
	2,200	16 x 30	0.16	2,323	MTX025□222J30CS□□□
	3,300	16 x 35	0.18	2,576	MTX025□332J35CS□□□
35	100	8 x 11.5	0.12	364	MTX035□101F12CS□□□
	220	10 x 12.5	0.12	626	MTX035□221G13CS□□□
	330	10 x 16	0.12	808	MTX035□331G16CS□□□
	470	10 x 20	0.12	960	MTX035□471G20CS□□□
	1,000	12.5 x 25	0.12	1,444	MTX035□102X25CS□□□
	2,200	16 x 35	0.14	2,576	MTX035□222J35CS□□□
	3,300	18 x 35	0.16	2,828	MTX035□332K35CS□□□
50	1	8 x 11.5	0.10	35	MTX050□1R0F12CS□□□
	2.2	8 x 11.5	0.10	51	MTX050□2R2F12CS□□□
	3.3	8 x 11.5	0.10	71	MTX050□3R3F12CS□□□
	4.7	8 x 11.5	0.10	101	MTX050□4R7F12CS□□□
	10	8 x 11.5	0.10	202	MTX050□100F12CS□□□
	22	8 x 11.5	0.10	263	MTX050□220F12CS□□□
	33	8 x 11.5	0.10	303	MTX050□330F12CS□□□
	47	8 x 11.5	0.10	303	MTX050□470F12CS□□□
	100	10 x 12.5	0.10	525	MTX050□101G13CS□□□
	220	10 x 20	0.10	899	MTX050□221G20CS□□□
	330	12.5 x 20	0.10	1,010	MTX050□331X20CS□□□
	470	12.5 x 25	0.10	1,212	MTX050□471X25CS□□□
	1,000	16 x 30	0.10	2,202	MTX050□102J30CS□□□
	2,200	18 x 40	0.12	2,828	MTX050□222K40CS□□□
63	33	8 x 11.5	0.09	253	MTX063□330F12CS□□□
	47	10 x 12.5	0.09	404	MTX063□470G13CS□□□
	100	10 x 16	0.09	455	MTX063□101G16CS□□□
	220	12.5 x 20	0.09	828	MTX063□221X20CS□□□
	330	12.5 x 25	0.09	1,010	MTX063□331X25CS□□□
	470	16 x 25	0.09	1,515	MTX063□1471J25CS□□□
	1,000	16 x 30	0.09	1,869	MTX063□102J30CS□□□
	1,500	18 x 40	0.09	2,374	MTX063□152K40CS□□□
100	4.7	8 x 11.5	0.08	101	MTX100□4R7F12CS□□□
	10	8 x 11.5	0.08	202	MTX100□100F12CS□□□
	22	8 x 11.5	0.08	222	MTX100□220F12CS□□□
	33	10 x 12.5	0.08	263	MTX100□330G13CS□□□
	47	10 x 16	0.08	333	MTX100□470G16CS□□□
	100	12.5 x 20	0.08	677	MTX100□101X20CS□□□
	220	16 x 25	0.08	1,111	MTX100□221J25CS□□□
	330	16 x 30	0.08	1,313	MTX100□331J30CS□□□
470	18 x 30	0.08	1,616	MTX100□471K30CS□□□	

RATED RIPPLE CURRENT MULTIPLIERS

Cap. (µF)	Freq. (Hz)				
	50,60	120	1k	10k	100k
~ 10	0.35	0.42	0.60	0.80	1.00
10 ~ 47	0.45	0.55	0.75	0.90	1.00
47 ~ 470	0.60	0.70	0.85	0.95	1.00
470 ~ 2,200	0.65	0.75	0.90	0.98	1.00
2,200~	0.75	0.80	0.95	1.00	1.00