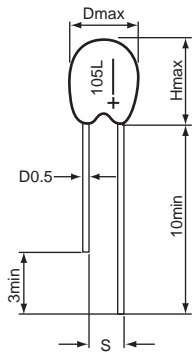


# MEC SOLID TANTALUM TYPE MTAP SERIES

## ■ Drawing (WIRE FORMS)



## ■ Ratings

- \* Operating Temperature:  
-55 ~ 85 °C  
-55 ~ 125 °C
- \* Capacitance Tolerance:  
±10%; ± 20%
- \* Leakage Current  
0.02C<sub>R</sub>V<sub>R</sub> or 1 μA  
0.01C<sub>R</sub>V<sub>R</sub> or 0.5 μA

## ■ Dimensions(mm)

Case	A	B	C	D	E	F
Dmax	4.5	5.5	6.5	8.5	9.5	11
Hmax	8	10	11	12.5	14.5	17.5
S ± 0.5	2.5	2.5	2.5	2.5	5.0	5.0

## ■ Case & Rated Voltage / Capacitance

C <sub>R</sub> (μF)	VR	4	6.3	10	16	25	35	40	50	UR
	Code	C	D	E	F	H	L	T		Code
0.1	104						A	A	A	104
0.15	154						A	A	A	154
0.22	224						A	A	A	224
0.33	334						A	A	A	334
0.47	474						A	A	A	474
0.68	684						A	A	B	684
1	105					A	A	A	B	105
1.5	155					A	A	B	B	155
2.2	225				A	A	B	B	C	225
3.3	335			A	A	B	B	B	C	335
4.7	475	A	A	A	B	B	B	C	D	475
6.8	685	A	A	B	B	B	C	D	E	685
10	106	A	B	B	B, E	C	C	E	E	106
15	156	A	B	B	C	D	E	E	F	156
22	226	B	B	C	C	E	E	F	F	226
33	336	B	C	C	D	E	F	F		336
47	476	B	C	D	E	F	F			476
68	686	C	D	E	E	F				686
100	107	C	E	E	F					107
150	157	D	E	F	F					157
220	227	E	F	F						227
330	337	E	F							337
	Code	C	D	E	F	H	L	T		Code

# MEC TANTALUM CAPACITORS CHARACTERISTICS

Tantalum capacitors are manufactured from a powder of pure tantalum metal pressed to form a slug around a tantalum wire and subsequently vacuum sintered at high temperature.

The resulting slug, although of high mechanical strength and density, is also highly porous giving a large internal surface area. This forms the positive "plate" of the capacitor.

A dielectric layer of tantalum pentoxide is anodized on the surface of the tantalum anode, the cathode is formed by layers of manganese dioxide. Electrical contact is established by the deposition of carbon onto the surface of the "slug". The cathode connection is then made by means of conductive contact to a lead frame. Packaging is carried out to meet individual specification and customer requirements.

