

Tantalum Electrolytic Capacitor

MCDT Series

multicomp PRO

**RoHS
Compliant**



Applications

- Resin-Coated, High performance to standard for general
- For colour television, computer, military and consumer instrument and other industrial electronic products application
- Meets the requirements of GS7215-87

Specifications

Item	Performance Characteristics	
Operating Temperature	-55°C to +125°C (Max. operating temperature at rated voltage shall be up to 85°C)	
Dissipation Factor	test frequency 120Hz 0.1 to 1pF = 4% Max., 1.5 to 6.8pF = 6% Max., 10 to 68pF = 8% Max., 100 to 220pF = 10% Max., 330pF and up = 12% Max.	
Leakage Current	After 1 Minute application of rated voltage, leakage current at 20°C is not more then 0.01CrUr (µA) or 0.5mA whichever is greater.	After 1 Minute application of rated voltage, leakage current at 85°C is not more then 0.1CrUr (µA) or 5µA whichever is greater.
Capacitance Change by Temperature	+15% Max. @ +125°C +12% Max. @ +85°C -12% Max. @ -55°C	
Surge Voltage	After application of surge voltage In series with a 33Ω resistor at rate voltage of 50 sec "DN" 30 sec "OFF", for 10DD successive test cycles at 85°C capacitance meet the characteristics requirements listed below.	
	Capacitance Change	Within ±10% of initial value
	Dissipation Factor	Initial specified value or less
	Leakage Current	Initial specified value or less
Resistance to solder heat	After immersing the bottom parts of the capacitor bodies by 2 to 2.5mm in solder pot at 260±5°C for 30 ±0.5sec.	
	Capacitance Change	Within ±3% of initial value
	Dissipation Factor	Initial specified value or less
	Leakage Current	Initial specified value or less
Humidity Resistance	At +40°, 90 to 95% R.H., for 500 hours (no voltage applied). The capacitance meet the requirement listed below.	
	Capacitance Change	Within ±12% of initial value
	Dissipation Factor	Initial specified value or less
	Leakage Current	Initial specified value or less
Load Life	After 1000 hours application of rated voltage in series with 3W resistor at 85°C or derated voltage at 125°C, capacitance meet the characteristics requirements listed below	
	Capacitance Change	Within ±10% of initial value
	Dissipation Factor	Initial specified value or less
	Leakage Current	1.25 times Initial specified value or less

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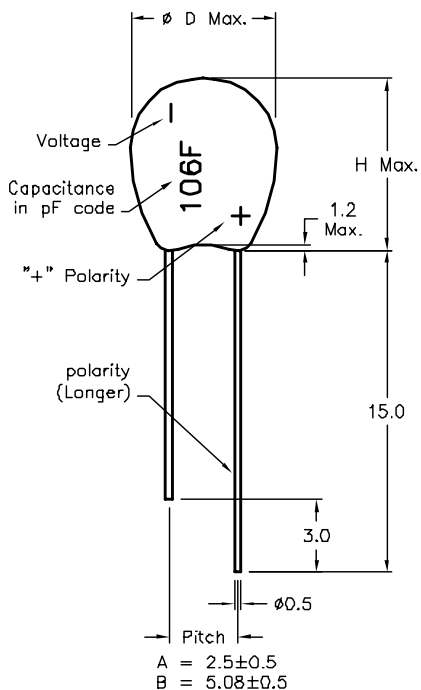
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Diagram



Case Code	Dimensions	
	D	H
A	4	6.5
B	4.5	7.5
C	5.2	8.5
D	6	9.5
E	7	10.5
F	8.2	12.5
G	10	18.5

Dimensions : Millimetres

Part Number Table

Description	Voltage (W V DC)	Capacitance (µF)	Tolerance (%)	Case Code	Pitch	Part Number
Tantalum Capacitor, Radial Leaded	6.3	10	10	A	A	MCDT10K6R3-1-RH
	6.3	15	10	B	A	MCDT15K6R3-1-RH
	6.3	47	20	C	A	MCDT47M6R3-1-RH
	6.3	100	20	E	A	MCDT100M6R3-1-RH
	10	4.7	10	A	A	MCDT4R7K10-1-RH
	10	10	10	B	A	MCDT1DK10-1-RH
	10	47	10	D	A	MCDT47K10-1-RH
	10	68	20	E	A	MCDT60M10-1-RH
	10	100	20	F	B	MCDT100M10-2-RH
	16	1	10	A	A	MCDT1K16-1-RH
	16	2.2	10	A	A	MCDT2R2K16-1-RH
	16	5.3	10	A	A	MCDT3R3K16-1-RH
	16	4.7	10	A	A	MCDT4R7K16-1-RH
	16	10	10	B	A	MCDT10K16-1-RH
	16	22	10	C	A	MCDT22K16-1-RH
	16	33	10	D	A	MCDT33K16-1-RH
16	47	20	E	A	MCDT47M16-1-RH	

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Description	Voltage (W V DC)	Capacitance (µF)	Tolerance (%)	Case Code	Pitch	Part Number
Tantalum Capacitor, Radial Leaded	25	2.2	10	A	A	MCDT2R2K25-1-RH
	25	4.7	10	B	A	MCDT4R7K25-1-RH
	25	6.8	10	C	A	MCDT6R8K25-1-RH
	25	10	10	C	A	MCDT10K25-1-RH
	25	15	10	D	A	MCDT15K25-1-RH
	25	22	20	E	A	MCDT22M25-1-RH
	25	33	20	E	B	MCDT33M25-2-RH
	25	47	20	F	B	MCDT47M25-2-RH
	25	68	20	G	B	MCDT68M25-2-RH
	55	0.1	20	A	A	MCDTR10M35-1-RH
	35	0.15	20	A	A	MCDTR15M35-1-RH
	35	0.22	20	A	A	MCDTRZ2M35-1-RH
	35	0.47	20	A	A	MCDTR47M35-1-RH
	35	0.68	20	A	A	MCDTR68M35-1-RH
	35	1	10	A	A	MCDT1K35-1-RH
	35	2.2	10	B	A	MCDT2R2K35-1-RH
	35	3.3	10	C	A	MCDT3R3K35-1-RH
	35	4.7	10	C	A	MCDT4R7K35-1-RH
	35	6.8	10	D	A	MCDT6R0K35-1-RH
	35	10	10	D	A	MCDT10K35-1-RH
	35	15	20	D	A	MCDT15M35-1-RH
	35	22	20	E	B	MCDT22M35-2-RH
	55	33	20	F	B	MCDT33M35-2-RH
	50	0.1	20	A	A	MCDTR10M50-1-RH
	50	0.33	20	A	A	MCDTR33M50-1-RH
	50	0.47	20	A	A	MCDTR47M50-1-RH
	50	2.2	10	C	A	MCDT2R2K50-1-RH
	50	3.3	10	D	A	MCDT3R3K50-1-RH
	50	4.7	10	E	A	MCDT4R7K50-1-RH
	50	6.8	20	F	B	MCDT6R8M50-2-RH
	50	10	20	F	B	MCDT1DM5D-2-RH

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