



TCM Series



Tantalum Solid Electrolytic Chip Capacitors Conductive Polymer Multianode



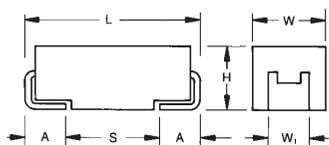
FEATURES

- Conductive polymer multianode
- Extremely Low ESR
- Reduced ignition failure mode
- 3x reflow 260°C compatible
- Volumetric efficiency
- High frequency capacitance retention



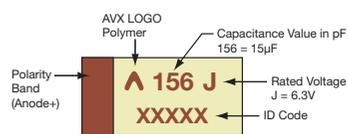
APPLICATIONS

- Telecommunication routers
- Basestations with high power DC/DCs



MARKING

E, V CASE



CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H+0.20 (0.008) -0.10 (0.004)	W ₁ ±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
E	2917	7343-43	7.30 (0.287)	4.30 (0.169)	4.10 (0.162)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
V	2924	7361-38	7.30 (0.287)	6.10 (0.240)	3.55 (0.140)	3.10 (0.120)	1.30 (0.051)	4.40 (0.173)

W₁ dimension applies to the termination width for A dimensional area only.

HOW TO ORDER

TCM

Type

E

Case Size
See table above

108

Capacitance Code
pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)

M

Tolerance
M=±20%

004

Rated DC Voltage
004=4Vdc
006=6.3Vdc
010=10Vdc
035=35Vdc
100=100Vdc

R

Packaging
R = Pure Tin 7" Reel
S = Pure Tin 13" Reel

0010

ESR in mΩ

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C						
Capacitance Range:	10 µF to 1000 µF						
Capacitance Tolerance:	±20%						
Leakage Current DCL:	0.1CV						
Rated Voltage (V _R)	≤ +85°C:	4	6.3	10	35	100	
Category Voltage (V _C)	≤ +105°C:	3.2	5	8	28	80	
Surge Voltage (V _S)	≤ +85°C:	5.2	8	13	46	130	
Surge Voltage (V _S)	≤ +105°C:	4	6	10	35	100	
Temperature Range:	-55°C to +105°C						
Reliability:	1% per 1000 hours at 85°C, V _R with 0.1Ω/V series impedance, 60% confidence level						





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CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage DC (V _R) to 85°C				
μF	Code	4V (G)	6.3V (J)	10V (A)	35V (V)	100V (A)
10	106					V(50)
22	226				E(25)	
33	336					
47	476					
68	686					
100	107					
150	157					
220	227					
330	337			E(10,15)		
470	477					
680	687		E(12)			
1000	108	E(10,12)				

Available Ratings, (ESR ratings in mOhms in brackets)

Engineering samples - please contact manufacturer

*Codes under development - subject to change

Note: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Cap (μF)	Rated Voltage (V)	Rated Temp. (°C)	Category Voltage (V)	Category Temp. (°C)	DCL (μA) Max.	DF % Max.	ESR Max. (mΩ) @ 100kHz	MSL	100kHz RMS Current (mA)			Product Category
											25°C	85°C	105°C	
4 Volt @ 85°C														
TCME108M004#0010	E	1000	4	85	3.2	105	400	8	10	3	6400	4500	2900	105°C
TCME108M004#0012	E	1000	4	85	3.2	105	400	8	12	3	5800	4100	2600	105°C
6.3 Volt @ 85°C														
TCME687M006#0012	E	680	6.3	85	5	105	408	8	12	3	5800	4100	2600	105°C
10 Volt @ 85°C														
TCME337M010#0010	E	330	10	85	8	105	330	8	10	3	6400	4500	2900	105°C
TCME337M010#0015	E	330	10	85	8	105	330	8	15	3	5200	3600	2300	105°C
35 Volt @ 85°C														
TCME226M035#0025	E	22	35	85	28	105	77	8	25	3	4000	2800	1800	105°C
100 Volt @ 85°C														
TCMV106M100#0050	V	10	100	85	80	105	100	8	50	3	2900	2000	1300	105°C

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5RMS with DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

ESR allowed to move up to 1.25 times catalog limit post mounting.

For typical weight and composition see page 204.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

Mouser Electronics

Authorized Distributor

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[AVX:](#)

[TCME337M010R0010](#) [TCME108M004R0010](#) [TCME108M004R0012](#) [TCME226M035R0025](#) [TCME337M010R0015](#)
[TCME687M006R0012](#)