

EIA-535AAAF

DETAIL SPECIFICATION

Fixed Tantalum Capacitors With Solid Electrolyte And Porous Anode With Wire Lead Terminals

Rectangular, Subminiature, Non-Hermetically Sealed,
Plastic Encapsulated, Polarized, Insulated, Radial Lead

EIA-535AAAF

MAY 1987

ELECTRONIC INDUSTRIES ASSOCIATION
ENGINEERING DEPARTMENT



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QC300201/US0006

April 1985 (As amended
March 1986)

INTERNATIONAL ELECTROTECHNICAL COMMISSION

*Quality Assessment System
for Electronic Components*

IECQ

Capacitors for use in electronic equipment:

Fixed Tantalum Capacitors with Solid Electrolyte and Porous
Anode with Wire Lead Terminals

Rectangular, Subminiature, Non-Hermetically Sealed, Plastic
Encapsulated, Polarized, Insulated, Radial Lead

Originator:

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The U.S. National Authorized Institution
for the IEC

QUALITY ASSESSMENT SYSTEM
FOR ELECTRONIC COMPONENTS

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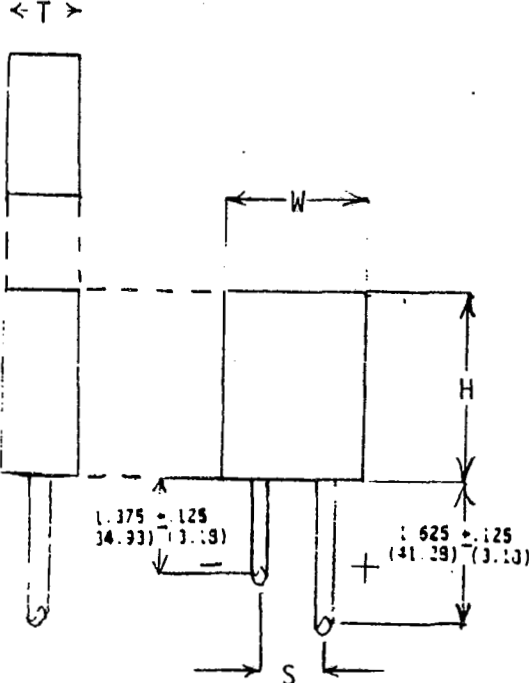
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**FIXED TANTALUM CAPACITORS WITH SOLID ELECTROLYTE AND
POROUS ANODE WITH WIRE LEAD TERMINALS**

**Rectangular, Subminiature, Non-Hermetically Sealed, Plastic
Encapsulated, Polarized, Insulated, Radial Lead**

This Standard represents US adoption of International Electrotechnical Commission Quality Assessment Systems (IECQ) Detail Specification QC300201/US0006, March 1986. It is issued as an EIA document to provide a Specification in the National Electronic Components Quality Assessment System (NECQ).

IEC documents referenced in this Detail Specification (e.g. QC 300000) may be obtained from the American National Standards Institute, 1430 Broadway, New York, New York 10018. EIA numbers are assigned to these IEC documents for reference purposes and to facilitate later publication of equivalent EIA documents.

ELECTRONICS INDUSTRIES ASSOCIATION	QC300201/US0006 (EIA-535AAAF)
Electronic Components of Assessed Quality in Accordance with: QC300000 (IEC 384-1) (EIA-5350000)	QC300201 (IEC 384-15-3) (EIA-535AA00)
Outline Drawing: (see Table I) (Third angle projection)  (Other shapes are permitted within the dimensions given) Dimensions in IN & MM	Fixed Tantalum Capacitors with solid electrolyte and porous anode with wire lead terminals.
	Rectangular, subminia- ture, non-hermetically sealed, plastic encap- sulated, polarized, insulated, radial lead.
	Electrical Circuit 
	Assessment Level: E Performance Grade: General Purpose

Information on availability
of components qualified to
this detail specification
are given in the Qualified
Products List.

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QC300201/US0006
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1. GENERAL DATA

1.1. RECOMMENDED METHODS OF MOUNTING

- a. By leads in absence of vibration or shock
- b. By body clamp with leads supported if vibration or shock exists.

1.2. DIMENSIONS

TABLE I

Case Size	DIMENSIONS									
	L Maximum		W Maximum		T Maximum		S Lead Spacing		Lead Diameter ±.001 (.03)	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	.125	3.18	.070	1.78	.040	1.02	.050±.015	1.27±.38	.010	.25
B	.165	4.19	.120	3.05	.070	1.78	.100±.020	2.54±.51	.010	.25
C	.225	5.72	.185	4.70	.075	1.91	.150±.020	3.81±.51	.010	.25
D	.290	7.37	.220	5.59	.110	2.79	.180±.025	4.57±.64	.016	.41
E	.310	7.87	.230	5.84	.130	3.30	.200±.025	5.08±.64	.016	.41
F	.475	12.07	.375	9.53	.150	3.81	.300±.025	7.62±.64	.016	.41

1.3. RATINGS AND CHARACTERISTICS

Capacitance range	See Table II
Tolerance on rated capacitance	±10%, ±20%
Rated Voltage (Ur)	See Table II
Upper Category Voltage (Uc)	See Table II
Climatic Category	-55°C/ +125°C/21
Rated temperature	-55°C to +125°C

Capacitance change with temperature	See Table II
Tangent of loss angle	See Table II
Leakage current	See Table II
DC Surge Voltage	See Table III

1.4 RELATED DOCUMENTS

Generic Specification: IEC Publication QC300000 (384-1 (1982)) (EIA-5350000)
Sectional Specification: IEC Publication QC300200 (384-15 (1982)) (EIA-535A000)