

EIA-535ACAD

DETAIL SPECIFICATION

Fixed Tantalum Capacitors With Non-Solid Electrolyte And Foil Electrode

EIA-535ACAD

MAY 1987

ELECTRONIC INDUSTRIES ASSOCIATION
ENGINEERING DEPARTMENT



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

*Quality Assessment System
for Electronic Components*

IECQ

Detail Specification for use in electronic equipment:

Fixed Tantalum Capacitors with Non-Solid Electrolyte
and Foil Electrode

Originator:

ECCB

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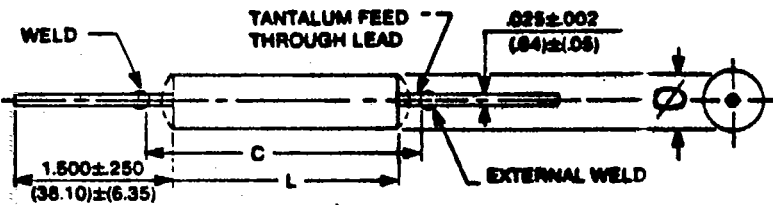
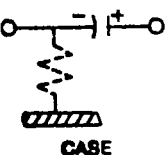
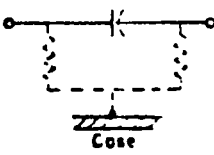
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**FIXED TANTALUM CAPACITORS WITH NON-SOLID
ELECTROLYTE AND FOIL ELECTRODE**

This Standard represents US adoption of International Electrotechnical Commission Quality Assessment Systems (IECQ) Detail Specification QC300203/US0004, February 1984. 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.



National Standards Organization ELECTRONIC INDUSTRIES ASSOCIATION	Detail Specification Number QC300203/US0004 (EIA-535ACAD)
Generic Specification Number Electronic components of assessed quality in accordance with QC300000 (IEC384-1) (EIA-5350000)	Blank Detail Specification Number QC300203 (EIA-535AC00)
Outline Drawing (SEE TABLE I) (THIRD ANGLE PROJECTION) 	Product Description FIXED TANTALUM CAPACITORS WITH NON-SOLID ELECTROLYTE AND FOIL ELECTRODE. Electrical Circuit POLAR  BI-POLAR  Typical Construction NON-HERMETICALLY SEALED, AXIAL LEAD, POLAR AND BI-POLAR ETCHED AND HI-ETCHED FOIL. Application/Assessment Level PREMIUM QUALITY, HIGH RELIABILITY DESIGN FOR THE MOST DEMANDING APPLICATIONS. ASSESSMENT LEVEL: E PERFORMANCE GRADE: LONG LIFE

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



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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 and leads if vibration or shock can exist.

1.2 DIMENSIONS**TABLE 1**

CASE CODE	Dimensions- mm (inches)			
	Basic Case		Insulated Case	
	$L \frac{1}{-}$ +1.60 (.062)	ϕ +0.40 (.016)	ϕ Max	C Max
A	17.50 (.688)	4.80 (1.88)	5.60 (.219)	30.20 (1.188)
B	23.00 (.969)	7.15 (.281)	7.90 (.312)	37.30 (1.469)
C	36.55 (1.438)	9.55 (.375)	10.30 (.406)	49.25 (1.938)
D	54.00 (2.125)	9.55 (.375)	10.30 (.406)	66.70 (2.625)
E	69.85 (2.750)	9.55 (.375)	10.30 (.406)	82.55 (3.250)

- 1/ Length of basic case; Shrink-Fitted insulation shall lap over the ends of the capacitor body.

Notes:

1. The weld shall not be enclosed in the end seal.

1.3 RATINGS AND CHARACTERISTICS

Capacitance range	See Table II
Tolerance on rated capacitance	See Table II
Rated voltage	See Table II
Upper category voltage	See Table II
Climatic category	55/125/56
Rated temperature	-55 to +125°C
Variation of Capacitance with temperature	See Table II
Tangent of loss angle	See Table II
Leakage current	See Table II
Impedance	See Table II
Reverse voltage (polar capacitors only)	3 VDC
Vibration severity	20g
Bump severity	Not applicable
Shock severity	100g