

DETAIL SPECIFICATION

Fixed Tantalum Chip Capacitor
Style 1 Protected – Extended
Capacitance Range

EIA-535BAAB

MAY 1987

ELECTRONIC INDUSTRIES ASSOCIATION
ENGINEERING DEPARTMENT



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Published by

ELECTRONIC INDUSTRIES ASSOCIATION
Engineering Department
2001 Eye Street, NW
Washington, D.C. 20006

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PRICE: \$9.00

QC300801/US0002

March 1986

(As Amended October 1986)

INTERNATIONAL ELECTROTECHNICAL COMMISSION

*Quality Assessment System
for Electronic Components*

IECQ

Fixed Capacitors for use in electronic equipment:

Detail Specification. Fixed Tantalum Chip Capacitor
Style 1 Protected - Extended
Capacitance Range

Originator:

ECCB
**THE ELECTRONIC COMPONENTS
CERTIFICATION BOARD, INC.**

The U.S. National Authorized Institution
for the IEC

QUALITY ASSESSMENT SYSTEM
FOR ELECTRONIC COMPONENTS

2001 Eye Street, N.W.
Washington, D.C. 20006
USA

FIXED TANTALUM CHIP CAPACITOR STYLE 1
PROTECTED - EXTENDED CAPACITANCE RANGE

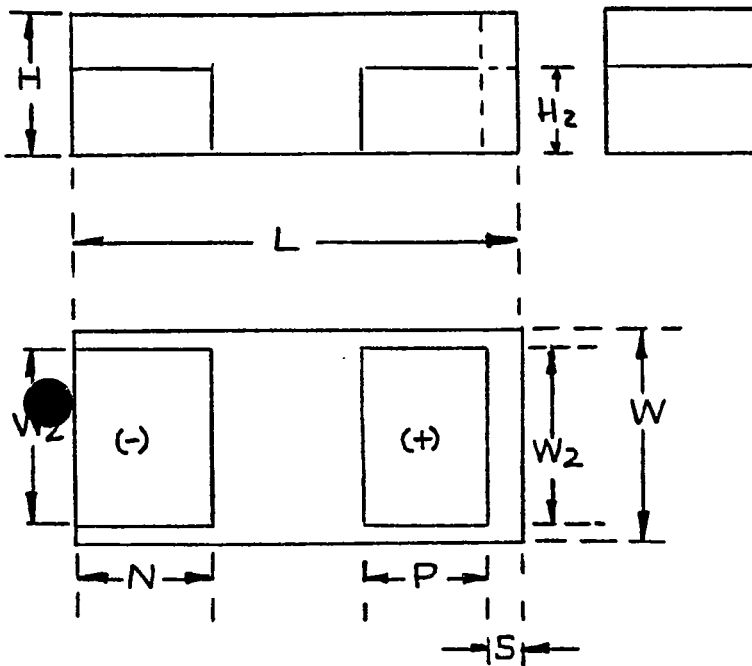
This Standard represents US adoption of International Electrotechnical Commission Quality Assessment Systems (IECQ) Detail Specification QC300801/US0002, October 1986. It is issued as an EIA document to provide a Specification in the National Electronic Components Quality Assessment System (NECQ).

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.

ELECTRONIC INDUSTRIES ASSOCIATION

Electronic Components of Assessed
Quality in Accordance With:
QC300000 (IEC384-1) (EIA-5350000)

Outline Drawing: (See Table I)
(Third Angle Projection)



(Other shapes permitted within
the dimensions given)

QC300801/US0002
(EIA-535BAAB)

QC300801 (EIA-535BA00)

Fixed Tantalum Chip Capacitor
Style 1 Protected - Extended
Capacitance Range

Polar, Non-Hermetically Sealed
Chip Capacitor with Solid
Electrolyte and Porous Tantalum
Anode

Electrical Circuit

- +
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Assessment Level: E

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



Documents
Document Sharing Hub

PART ONE - GENERAL DATA

1.0 GENERAL DATA

1.1 RECOMMENDED METHOD(S) OF MOUNTING

These components can be attached to glass epoxy or alumina substrates by conventional techniques such as vapor-phase or wave soldering and hot plate methods. In general attachment with a soldering iron is not recommended due to the difficulty of consistently controlling temperature and time at temperature.

1.2 DIMENSIONS:

TABLE IA

Dimensions of Extended Range Tantalum Chip Capacitors

Case	L	W	H	N	P	S	W2	H2
3518	3.5+,-.2	1.8+,-.2	2.1 max.	.2-1.7	.2-1.3	.1-1.0	1.5-2.0	.7 min.
3527	3.5+,-.2	2.7+,-.3	2.1 max.	.2-1.7	.2-1.3	.1-1.0	2.2-3.0	.7 min.
7227	7.2+,-.3	2.7+,-.3	3.1 max.	.5-2.5	.2-1.8	.1-1.3	2.2-3.0	1.0 min.
7257	7.2+,-.3	5.7+,-.5	3.7 max.	.5-2.5	.2-1.8	.1-1.3	4.9-6.2	1.2 min.

All Dimensions mm

Note 1: W2 = Termination Widths
 H2 = Termination Heights

Note 2: The riser from the Tantalum Anode extends into the volume delineated by "S".

Note 3: There are differences in the unit configurations supplied by the various manufacturers. For optimum results the user should consult the selected component manufacturers' specifications prior to doing PWB layouts.

TABLE IB

Nominal Dimensions in Inches (for Reference Only)

Case	L	W	H	N	P	S	W2	H2
3518	.138	.071	.083	.008-.067	.008-.051	.004-.039	.059-.079	.028
3527	.138	.106	.083	.008-.067	.008-.051	.004-.039	.087-.118	.028
7227	.283	.106	.122	.020-.098	.008-.071	.004-.051	.087-.118	.039
7257	.283	.224	.146	.020-.098	.008-.071	.004-.051	.193-.244	.047