



Product/Process Change Notice (PCN)

- ☒ Major Change
☐ Minor Change

PCN Number: PCN_VarVS_20250721

Affected Series: WE-VS

Affected Part Number: please see table below

PCN Date: 2025-04-21 (YYYY-MM-DD)

Effective Date: 2025-07-21 (YYYY-MM-DD)

Change Category:

- ☐ Equipment/Location
☐ General Data
☒ Material
☐ Process
☐ Product Design
☐ Shipping/Packaging
☐ Supplier
☐ Software

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Datasheet Change:

- ☒ Yes ☐ No

Attachment:

- ☐ Yes ☒ No

DESCRIPTION OF CHANGE:

To enhance environmental protection and ensure compliance with regulatory requirements, Würth Elektronik eiSos is transitioning the WE-VS Series to a lead-free design.

There will be no change in form, fit, quality or reliability of the product.

The new revision of the affected part numbers will be sent out after the previous revision is out of stock (according to FIFO - first-in, first-out).

The preliminary datasheets of the affected part numbers will be available on the website after the PCN date.
 Link to the website: [WE-VS](#)

(see next page)



Affected part numbers (please use table links for PN details) *:

0402	82537040	82537070	82537110	82557060
	82557080	82557140		
0603	82536040	82536070	82536140	82556060
	82556140	82556170	82556200	82556250
	82556300			
0805	82550040	82550040R	82550060	82550080
	82550110	82550140	82550170	82550200
	82550250	82550300	82550350	82550110R
1206	82531040	82551040	82531140	82551140
	82541140	82531400	82551400	82541110
	82541200	82541250	82541300	82541350
	82551110	82551170	82551200	82551250
	82551300	82551350	82551500	82551600

* Samples available on demand

NOT Affected part numbers:

0402	82537259	82536110	82556110	82536259
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PART NUMBER, REVISION & DATASHEET – SIZE 0402:

Part Number	Revision before change:	Revision after change:
82537040	005.000	006.000
82537070	005.000	006.000
82537110	005.000	006.000
82557060	005.000	006.000
82557080	001.000	002.000
82557140	005.000	006.000

The links in the table above are valid until the effective date.



PART NUMBER, REVISION & DATASHEET – SIZE 0603:

Part Number	Revision before change:	Revision after change:
82536040	005.000	006.000
82536070	005.000	006.000
82536140	005.000	006.000
82556060	005.000	006.000
82556140	005.000	006.000
82556170	005.000	006.000
82556200	005.000	006.000
82556250	005.000	006.000
82556300	005.000	006.000

The links in the table above are valid until the effective date.

PART NUMBER, REVISION & DATASHEET – SIZE 0805:

Part Number	Revision before change:	Revision after change:
82550040	005.000	006.000
82550040R	001.000	002.000
82550060	005.000	006.000
82550080	005.000	006.000
82550110	005.000	006.000
82550140	005.000	006.000
82550170	005.000	006.000
82550200	005.000	006.000
82550250	005.000	006.000
82550300	005.000	006.000
82550350	005.000	006.000
82550110R	001.000	002.000

The links in the table above are valid until the effective date.



PART NUMBER, REVISION & DATASHEET – SIZE 1206:

Part Number	Revision before change:	Revision after change:
82531040	005.000	006.000
82551040	001.000	002.000
82531140	005.000	006.000
82551140	005.000	006.000
82541140	005.000	006.000
82531400	005.000	006.000
82551400	001.000	002.000
82541110	005.000	006.000
82541200	001.000	002.000
82541250	005.000	006.000
82541300	005.000	006.000
82541350	005.000	006.000
82551110	001.000	002.000
82551170	005.000	006.000
82551200	005.000	006.000
82551250	005.000	006.000
82551300	005.000	006.000
82551350	001.000	002.000
82551500	005.000	006.000
82551600	005.000	006.000

The links in the table above are valid until the effective date.

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Details of Change:

Some of the Electrical Properties will be different after the change. In the following table the changes will be described:

Size 0402

82537040									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	4	V	max.	AC Operating Voltage	Vrms	4	V	max.
DC Operating Voltage	Vdc	5.5	V	max.	DC Operating Voltage	Vdc	5.5	V	max.
Clamping Voltage	Vclamp	21	V	max.	Clamping Voltage	Vclamp	21	V	max.
(Reverse) Peak Pulse Current	Ipeak	20	A	max.	(Reverse) Peak Pulse Current	Ipeak	20	A	max.
Energy Absorption	Wmx	0	J	max.	Energy Absorption	Wmx	0.04	J	max.
(Reverse) Breakdown Voltage	Vbr	8	V	20%	(Reverse) Breakdown Voltage	Vbr	8	V	20%
(Channel) Input Capacitance	Cch	220	pF	typ.	(Channel) Input Capacitance	Cch	220	pF	typ.

82537070									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	7	V	max.	AC Operating Voltage	Vrms	8	V	max.
DC Operating Voltage	Vdc	9	V	max.	DC Operating Voltage	Vdc	11	V	max.
Clamping Voltage	Vclamp	30	V	max.	Clamping Voltage	Vclamp	35	V	max.
(Reverse) Peak Pulse Current	Ipeak	20	A	max.	(Reverse) Peak Pulse Current	Ipeak	20	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.05	J	max.
(Reverse) Breakdown Voltage	Vbr	13	V	15%	(Reverse) Breakdown Voltage	Vbr	15.8	V	20%
(Channel) Input Capacitance	Cch	120	pF	typ.	(Channel) Input Capacitance	Cch	190	pF	typ.

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82537110									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	11	V	max.	AC Operating Voltage	Vrms	11	V	max.
DC Operating Voltage	Vdc	14	V	max.	DC Operating Voltage	Vdc	14	V	max.
Clamping Voltage	Vclamp	38	V	max.	Clamping Voltage	Vclamp	44	V	max.
(Reverse) Peak Pulse Current	Ipeak	10	A	max.	(Reverse) Peak Pulse Current	Ipeak	10	A	max.
Energy Absorption	Wmx	0	J	max.	Energy Absorption	Wmx	0.02	J	max.
(Reverse) Breakdown Voltage	Vbr	18	V	15%	(Reverse) Breakdown Voltage	Vbr	18	V	15%
(Channel) Input Capacitance	Cch	70	pF	typ.	(Channel) Input Capacitance	Cch	160	pF	typ.

82557060									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	6	V	max.	AC Operating Voltage	Vrms	6	V	max.
DC Operating Voltage	Vdc	9	V	max.	DC Operating Voltage	Vdc	9	V	max.
Clamping Voltage	Vclamp	20	V	max.	Clamping Voltage	Vclamp	32	V	max.
(Reverse) Peak Pulse Current	Ipeak	20	A	max.	(Reverse) Peak Pulse Current	Ipeak	20	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.05	J	max.
(Reverse) Breakdown Voltage	Vbr	12	V	15%	(Reverse) Breakdown Voltage	Vbr	13.8	V	20%
(Channel) Input Capacitance	Cch	190	pF	typ.	(Channel) Input Capacitance	Cch	160	pF	typ.

82557080									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	8	V	max.	AC Operating Voltage	Vrms	8	V	max.
DC Operating Voltage	Vdc	11	V	max.	DC Operating Voltage	Vdc	11	V	max.
Clamping Voltage	Vclamp	25	V	max.	Clamping Voltage	Vclamp	35	V	max.
(Reverse) Peak Pulse Current	Ipeak	20	A	max.	(Reverse) Peak Pulse Current	Ipeak	20	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.05	J	max.
(Reverse) Breakdown Voltage	Vbr	15	V	15%	(Reverse) Breakdown Voltage	Vbr	11	V	20%
(Channel) Input Capacitance	Cch	160	pF	typ.	(Channel) Input Capacitance	Cch	160	pF	typ.

(see next page)



82557140									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	14	V	max.	AC Operating Voltage	Vrms	14	V	max.
DC Operating Voltage	Vdc	18	V	max.	DC Operating Voltage	Vdc	18	V	max.
Clamping Voltage	Vclamp	40	V	max.	Clamping Voltage	Vclamp	40	V	max.
(Reverse) Peak Pulse Current	Ipeak	20	A	max.	(Reverse) Peak Pulse Current	Ipeak	20	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.05	J	max.
(Reverse) Breakdown Voltage	Vbr	24	V	10%	(Reverse) Breakdown Voltage	Vbr	20	V	14%
(Channel) Input Capacitance	Cch	93	pF	typ.	(Channel) Input Capacitance	Cch	84	pF	typ.

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82536040									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	4	V	max.	AC Operating Voltage	Vrms	4	V	max.
DC Operating Voltage	Vdc	5.5	V	max.	DC Operating Voltage	Vdc	5.5	V	max.
Clamping Voltage	Vclamp	21	V	max.	Clamping Voltage	Vclamp	21	V	max.
(Reverse) Peak Pulse Current	Ipeak	30	A	max.	(Reverse) Peak Pulse Current	Ipeak	20	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.1	J	max.
(Reverse) Breakdown Voltage	Vbr	8	V	25%	(Reverse) Breakdown Voltage	Vbr	8	V	25%
(Channel) Input Capacitance	Cch	200	pF	typ.	(Channel) Input Capacitance	Cch	580	pF	typ.

82536070									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	7	V	max.	AC Operating Voltage	Vrms	6	V	max.
DC Operating Voltage	Vdc	9	V	max.	DC Operating Voltage	Vdc	9	V	max.
Clamping Voltage	Vclamp	30	V	max.	Clamping Voltage	Vclamp	30	V	max.
(Reverse) Peak Pulse Current	Ipeak	30	A	max.	(Reverse) Peak Pulse Current	Ipeak	30	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.1	J	max.
(Reverse) Breakdown Voltage	Vbr	14	V	15%	(Reverse) Breakdown Voltage	Vbr	13.3	V	20%
(Channel) Input Capacitance	Cch	200	pF	typ.	(Channel) Input Capacitance	Cch	280	pF	typ.

82536140									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	14	V	max.	AC Operating Voltage	Vrms	14	V	max.
DC Operating Voltage	Vdc	18	V	max.	DC Operating Voltage	Vdc	18	V	max.
Clamping Voltage	Vclamp	45	V	max.	Clamping Voltage	Vclamp	45	V	max.
(Reverse) Peak Pulse Current	Ipeak	30	A	max.	(Reverse) Peak Pulse Current	Ipeak	30	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.2	J	max.
(Reverse) Breakdown Voltage	Vbr	25	V	10%	(Reverse) Breakdown Voltage	Vbr	25	V	10%
(Channel) Input Capacitance	Cch	100	pF	typ.	(Channel) Input Capacitance	Cch	130	pF	typ.

(see next page)



82556060									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	6	V	max.	AC Operating Voltage	Vrms	6	V	max.
DC Operating Voltage	Vdc	9	V	max.	DC Operating Voltage	Vdc	9	V	max.
Clamping Voltage	Vclamp	20	V	max.	Clamping Voltage	Vclamp	32	V	max.
(Reverse) Peak Pulse Current	Ipeak	30	A	max.	(Reverse) Peak Pulse Current	Ipeak	20	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.05	J	max.
(Reverse) Breakdown Voltage	Vbr	12	V	15%	(Reverse) Breakdown Voltage	Vbr	13.8	V	20%
(Channel) Input Capacitance	Cch	680	pF	typ.	(Channel) Input Capacitance	Cch	160	pF	typ.

82556140									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	14	V	max.	AC Operating Voltage	Vrms	14	V	max.
DC Operating Voltage	Vdc	18	V	max.	DC Operating Voltage	Vdc	18	V	max.
Clamping Voltage	Vclamp	40	V	max.	Clamping Voltage	Vclamp	40	V	max.
(Reverse) Peak Pulse Current	Ipeak	30	A	max.	(Reverse) Peak Pulse Current	Ipeak	30	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.2	J	max.
(Reverse) Breakdown Voltage	Vbr	24	V	10%	(Reverse) Breakdown Voltage	Vbr	24	V	10%
(Channel) Input Capacitance	Cch	270	pF	typ.	(Channel) Input Capacitance	Cch	130	pF	typ.

82556170									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	17	V	max.	AC Operating Voltage	Vrms	17	V	max.
DC Operating Voltage	Vdc	22	V	max.	DC Operating Voltage	Vdc	22	V	max.
Clamping Voltage	Vclamp	45	V	max.	Clamping Voltage	Vclamp	54	V	max.
(Reverse) Peak Pulse Current	Ipeak	30	A	max.	(Reverse) Peak Pulse Current	Ipeak	30	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.2	J	max.
(Reverse) Breakdown Voltage	Vbr	27	V	10%	(Reverse) Breakdown Voltage	Vbr	33	V	24%
(Channel) Input Capacitance	Cch	235	pF	typ.	(Channel) Input Capacitance	Cch	75	pF	typ.

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82556200									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	20	V	max.	AC Operating Voltage	Vrms	20	V	max.
DC Operating Voltage	Vdc	26	V	max.	DC Operating Voltage	Vdc	26	V	max.
Clamping Voltage	Vclamp	54	V	max.	Clamping Voltage	Vclamp	67	V	max.
(Reverse) Peak Pulse Current	Ipeak	30	A	max.	(Reverse) Peak Pulse Current	Ipeak	30	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.1	J	max.
(Reverse) Breakdown Voltage	Vbr	33	V	10%	(Reverse) Breakdown Voltage	Vbr	36.5	V	18%
(Channel) Input Capacitance	Cch	200	pF	typ.	(Channel) Input Capacitance	Cch	100	pF	typ.

82556250									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	25	V	max.	AC Operating Voltage	Vrms	25	V	max.
DC Operating Voltage	Vdc	30	V	max.	DC Operating Voltage	Vdc	30	V	max.
Clamping Voltage	Vclamp	65	V	max.	Clamping Voltage	Vclamp	71	V	max.
(Reverse) Peak Pulse Current	Ipeak	30	A	max.	(Reverse) Peak Pulse Current	Ipeak	30	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.2	J	max.
(Reverse) Breakdown Voltage	Vbr	39	V	10%	(Reverse) Breakdown Voltage	Vbr	39	V	10%
(Channel) Input Capacitance	Cch	120	pF	typ.	(Channel) Input Capacitance	Cch	100	pF	typ.

82556300									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	30	V	max.	AC Operating Voltage	Vrms	30	V	max.
DC Operating Voltage	Vdc	38	V	max.	DC Operating Voltage	Vdc	38	V	max.
Clamping Voltage	Vclamp	77	V	max.	Clamping Voltage	Vclamp	77	V	max.
(Reverse) Peak Pulse Current	Ipeak	30	A	max.	(Reverse) Peak Pulse Current	Ipeak	30	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.1	J	max.
(Reverse) Breakdown Voltage	Vbr	47	V	10%	(Reverse) Breakdown Voltage	Vbr	47	V	10%
(Channel) Input Capacitance	Cch	100	pF	typ.	(Channel) Input Capacitance	Cch	100	pF	typ.

(see next page)



Size 0805:

82550040									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	4	V	max.	AC Operating Voltage	Vrms	4	V	max.
DC Operating Voltage	Vdc	5.5	V	max.	DC Operating Voltage	Vdc	5.5	V	max.
Clamping Voltage	Vclamp	16	V	max.	Clamping Voltage	Vclamp	22	V	max.
(Reverse) Peak Pulse Current	Ipeak	80	A	max.	(Reverse) Peak Pulse Current	Ipeak	80	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.1	J	max.
(Reverse) Breakdown Voltage	Vbr	8	V	25%	(Reverse) Breakdown Voltage	Vbr	12	V	21%
(Channel) Input Capacitance	Cch	1600	pF	typ.	(Channel) Input Capacitance	Cch	800	pF	typ.

82550040R									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	4	V	max.	AC Operating Voltage	Vrms	4	V	max.
DC Operating Voltage	Vdc	5.5	V	max.	DC Operating Voltage	Vdc	5.5	V	max.
Clamping Voltage	Vclamp	16	V	max.	Clamping Voltage	Vclamp	22	V	max.
(Reverse) Peak Pulse Current	Ipeak	80	A	max.	(Reverse) Peak Pulse Current	Ipeak	80	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.1	J	max.
(Reverse) Breakdown Voltage	Vbr	8	V	25%	(Reverse) Breakdown Voltage	Vbr	12	V	21%
(Channel) Input Capacitance	Cch	1600	pF	typ.	(Channel) Input Capacitance	Cch	800	pF	typ.

82550060									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	6	V	max.	AC Operating Voltage	Vrms	6	V	max.
DC Operating Voltage	Vdc	9	V	max.	DC Operating Voltage	Vdc	9	V	max.
Clamping Voltage	Vclamp	20	V	max.	Clamping Voltage	Vclamp	30	V	max.
(Reverse) Peak Pulse Current	Ipeak	80	A	max.	(Reverse) Peak Pulse Current	Ipeak	80	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.2	J	max.
(Reverse) Breakdown Voltage	Vbr	12	V	15%	(Reverse) Breakdown Voltage	Vbr	15	V	24%
(Channel) Input Capacitance	Cch	1180	pF	typ.	(Channel) Input Capacitance	Cch	280	pF	typ.

(see next page)



82550080									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	8	V	max.	AC Operating Voltage	Vrms	8	V	max.
DC Operating Voltage	Vdc	11	V	max.	DC Operating Voltage	Vdc	11	V	max.
Clamping Voltage	Vclamp	25	V	max.	Clamping Voltage	Vclamp	45	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.3	J	max.
(Reverse) Breakdown Voltage	Vbr	15	V	15%	(Reverse) Breakdown Voltage	Vbr	17	V	18%
(Channel) Input Capacitance	Cch	1050	pF	typ.	(Channel) Input Capacitance	Cch	160	pF	typ.

82550110									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	11	V	max.	AC Operating Voltage	Vrms	11	V	max.
DC Operating Voltage	Vdc	14	V	max.	DC Operating Voltage	Vdc	14	V	max.
Clamping Voltage	Vclamp	30	V	max.	Clamping Voltage	Vclamp	38	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.1	J	max.
(Reverse) Breakdown Voltage	Vbr	18	V	15%	(Reverse) Breakdown Voltage	Vbr	18	V	15%
(Channel) Input Capacitance	Cch	750	pF	typ.	(Channel) Input Capacitance	Cch	160	pF	typ.

82550140									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	14	V	max.	AC Operating Voltage	Vrms	14	V	max.
DC Operating Voltage	Vdc	18	V	max.	DC Operating Voltage	Vdc	18	V	max.
Clamping Voltage	Vclamp	40	V	max.	Clamping Voltage	Vclamp	44	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	120	A	max.
Energy Absorption	Wmx	0.2	J	max.	Energy Absorption	Wmx	0.3	J	max.
(Reverse) Breakdown Voltage	Vbr	24	V	10%	(Reverse) Breakdown Voltage	Vbr	24	V	10%
(Channel) Input Capacitance	Cch	550	pF	typ.	(Channel) Input Capacitance	Cch	350	pF	typ.

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82550170									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	17	V	max.	AC Operating Voltage	Vrms	17	V	max.
DC Operating Voltage	Vdc	22	V	max.	DC Operating Voltage	Vdc	22	V	max.
Clamping Voltage	Vclamp	45	V	max.	Clamping Voltage	Vclamp	54	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	30	A	max.
Energy Absorption	Wmx	0.2	J	max.	Energy Absorption	Wmx	0.1	J	max.
(Reverse) Breakdown Voltage	Vbr	27	V	10%	(Reverse) Breakdown Voltage	Vbr	30	V	15%
(Channel) Input Capacitance	Cch	400	pF	typ.	(Channel) Input Capacitance	Cch	100	pF	typ.

82550200									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	20	V	max.	AC Operating Voltage	Vrms	20	V	max.
DC Operating Voltage	Vdc	26	V	max.	DC Operating Voltage	Vdc	26	V	max.
Clamping Voltage	Vclamp	54	V	max.	Clamping Voltage	Vclamp	54	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.3	J	max.	Energy Absorption	Wmx	0.4	J	max.
(Reverse) Breakdown Voltage	Vbr	33	V	10%	(Reverse) Breakdown Voltage	Vbr	33	V	10%
(Channel) Input Capacitance	Cch	350	pF	typ.	(Channel) Input Capacitance	Cch	100	pF	typ.

82550250									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	25	V	max.	AC Operating Voltage	Vrms	25	V	max.
DC Operating Voltage	Vdc	30	V	max.	DC Operating Voltage	Vdc	30	V	max.
Clamping Voltage	Vclamp	65	V	max.	Clamping Voltage	Vclamp	71	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.3	J	max.	Energy Absorption	Wmx	0.3	J	max.
(Reverse) Breakdown Voltage	Vbr	39	V	10%	(Reverse) Breakdown Voltage	Vbr	39	V	10%
(Channel) Input Capacitance	Cch	310	pF	typ.	(Channel) Input Capacitance	Cch	100	pF	typ.

(see next page)



82550300									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	30	V	max.	AC Operating Voltage	Vrms	30	V	max.
DC Operating Voltage	Vdc	38	V	max.	DC Operating Voltage	Vdc	38	V	max.
Clamping Voltage	Vclamp	77	V	max.	Clamping Voltage	Vclamp	81	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.3	J	max.	Energy Absorption	Wmx	0.3	J	max.
(Reverse) Breakdown Voltage	Vbr	47	V	10%	(Reverse) Breakdown Voltage	Vbr	50	V	10%
(Channel) Input Capacitance	Cch	280	pF	typ.	(Channel) Input Capacitance	Cch	200	pF	typ.

82550350									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	35	V	max.	AC Operating Voltage	Vrms	35	V	max.
DC Operating Voltage	Vdc	45	V	max.	DC Operating Voltage	Vdc	45	V	max.
Clamping Voltage	Vclamp	90	V	max.	Clamping Voltage	Vclamp	90	V	max.
(Reverse) Peak Pulse Current	Ipeak	80	A	max.	(Reverse) Peak Pulse Current	Ipeak	80	A	max.
Energy Absorption	Wmx	0.36	J	max.	Energy Absorption	Wmx	0.1	J	max.
(Reverse) Breakdown Voltage	Vbr	56	V	10%	(Reverse) Breakdown Voltage	Vbr	56	V	10%
(Channel) Input Capacitance	Cch	195	pF	typ.	(Channel) Input Capacitance	Cch	130	pF	typ.

82550110R									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	11	V	max.	AC Operating Voltage	Vrms	11	V	max.
DC Operating Voltage	Vdc	14	V	max.	DC Operating Voltage	Vdc	14	V	max.
Clamping Voltage	Vclamp	30	V	max.	Clamping Voltage	Vclamp	38	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.1	J	max.	Energy Absorption	Wmx	0.1	J	max.
(Reverse) Breakdown Voltage	Vbr	18	V	15%	(Reverse) Breakdown Voltage	Vbr	18	V	15%
(Channel) Input Capacitance	Cch	750	pF	typ.	(Channel) Input Capacitance	Cch	160	pF	typ.

(see next page)



Size 1206

82531040									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	4	V	max.	AC Operating Voltage	Vrms	4	V	max.
DC Operating Voltage	Vdc	5.5	V	max.	DC Operating Voltage	Vdc	5.5	V	max.
Clamping Voltage	Vclamp	19	V	max.	Clamping Voltage	Vclamp	25	V	max.
(Reverse) Peak Pulse Current	Ipeak	150	A	max.	(Reverse) Peak Pulse Current	Ipeak	150	A	max.
Energy Absorption	Wmx	0.4	J	max.	Energy Absorption	Wmx	0.3	J	max.
(Reverse) Breakdown Voltage	Vbr	8	V	10%	(Reverse) Breakdown Voltage	Vbr	8	V	10%
(Channel) Input Capacitance	Cch	3600	pF	typ.	(Channel) Input Capacitance	Cch	2000	pF	typ.

82551040									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	4	V	max.	AC Operating Voltage	Vrms	4	V	max.
DC Operating Voltage	Vdc	5.5	V	max.	DC Operating Voltage	Vdc	5.5	V	max.
Clamping Voltage	Vclamp	16	V	max.	Clamping Voltage	Vclamp	25	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.2	J	max.	Energy Absorption	Wmx	0.3	J	max.
(Reverse) Breakdown Voltage	Vbr	8	V	10%	(Reverse) Breakdown Voltage	Vbr	8	V	10%
(Channel) Input Capacitance	Cch	3200	pF	typ.	(Channel) Input Capacitance	Cch	2000	pF	typ.

82531140									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	14	V	max.	AC Operating Voltage	Vrms	14	V	max.
DC Operating Voltage	Vdc	18	V	max.	DC Operating Voltage	Vdc	16	V	max.
Clamping Voltage	Vclamp	35	V	max.	Clamping Voltage	Vclamp	35	V	max.
(Reverse) Peak Pulse Current	Ipeak	150	A	max.	(Reverse) Peak Pulse Current	Ipeak	150	A	max.
Energy Absorption	Wmx	0.4	J	max.	Energy Absorption	Wmx	0.4	J	max.
(Reverse) Breakdown Voltage	Vbr	22	V	10%	(Reverse) Breakdown Voltage	Vbr	22	V	10%
(Channel) Input Capacitance	Cch	1800	pF	typ.	(Channel) Input Capacitance	Cch	900	pF	typ.

(see next page)



82551140									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	14	V	max.	AC Operating Voltage	Vrms	14	V	max.
DC Operating Voltage	Vdc	18	V	max.	DC Operating Voltage	Vdc	16	V	max.
Clamping Voltage	Vclamp	38	V	max.	Clamping Voltage	Vclamp	35	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	150	A	max.
Energy Absorption	Wmx	0.3	J	max.	Energy Absorption	Wmx	0.4	J	max.
(Reverse) Breakdown Voltage	Vbr	24	V	10%	(Reverse) Breakdown Voltage	Vbr	22	V	10%
(Channel) Input Capacitance	Cch	900	pF	typ.	(Channel) Input Capacitance	Cch	900	pF	typ.

82541140									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	14	V	max.	AC Operating Voltage	Vrms	14	V	max.
DC Operating Voltage	Vdc	18	V	max.	DC Operating Voltage	Vdc	16	V	max.
Clamping Voltage	Vclamp	45	V	max.	Clamping Voltage	Vclamp	35	V	max.
(Reverse) Peak Pulse Current	Ipeak	200	A	max.	(Reverse) Peak Pulse Current	Ipeak	200	A	max.
Energy Absorption	Wmx	0.5	J	max.	Energy Absorption	Wmx	0.6	J	max.
(Reverse) Breakdown Voltage	Vbr	24	V	10%	(Reverse) Breakdown Voltage	Vbr	24	V	10%
(Channel) Input Capacitance	Cch	1160	pF	typ.	(Channel) Input Capacitance	Cch	900	pF	typ.

82531400									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	40	V	max.	AC Operating Voltage	Vrms	40	V	max.
DC Operating Voltage	Vdc	56	V	max.	DC Operating Voltage	Vdc	56	V	max.
Clamping Voltage	Vclamp	120	V	max.	Clamping Voltage	Vclamp	110	V	max.
(Reverse) Peak Pulse Current	Ipeak	200	A	max.	(Reverse) Peak Pulse Current	Ipeak	200	A	max.
Energy Absorption	Wmx	1	J	max.	Energy Absorption	Wmx	1	J	max.
(Reverse) Breakdown Voltage	Vbr	70	V	10%	(Reverse) Breakdown Voltage	Vbr	70	V	10%
(Channel) Input Capacitance	Cch	180	pF	typ.	(Channel) Input Capacitance	Cch	130	pF	typ.

(see next page)



82551400									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	40	V	max.	AC Operating Voltage	Vrms	40	V	max.
DC Operating Voltage	Vdc	56	V	max.	DC Operating Voltage	Vdc	56	V	max.
Clamping Voltage	Vclamp	110	V	max.	Clamping Voltage	Vclamp	110	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	200	A	max.
Energy Absorption	Wmx	1	J	max.	Energy Absorption	Wmx	1	J	max.
(Reverse) Breakdown Voltage	Vbr	68	V	10%	(Reverse) Breakdown Voltage	Vbr	68	V	10%
(Channel) Input Capacitance	Cch	280	pF	typ.	(Channel) Input Capacitance	Cch	130	pF	typ.

82541110									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	11	V	max.	AC Operating Voltage	Vrms	11	V	max.
DC Operating Voltage	Vdc	14	V	max.	DC Operating Voltage	Vdc	14	V	max.
Clamping Voltage	Vclamp	35	V	max.	Clamping Voltage	Vclamp	36	V	max.
(Reverse) Peak Pulse Current	Ipeak	300	A	max.	(Reverse) Peak Pulse Current	Ipeak	200	A	max.
Energy Absorption	Wmx	0.5	J	max.	Energy Absorption	Wmx	0.5	J	max.
(Reverse) Breakdown Voltage	Vbr	18	V	15%	(Reverse) Breakdown Voltage	Vbr	18	V	15%
(Channel) Input Capacitance	Cch	1500	pF	typ.	(Channel) Input Capacitance	Cch	840	pF	typ.

82541200									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	20	V	max.	AC Operating Voltage	Vrms	20	V	max.
DC Operating Voltage	Vdc	26	V	max.	DC Operating Voltage	Vdc	26	V	max.
Clamping Voltage	Vclamp	60	V	max.	Clamping Voltage	Vclamp	60	V	max.
(Reverse) Peak Pulse Current	Ipeak	200	A	max.	(Reverse) Peak Pulse Current	Ipeak	200	A	max.
Energy Absorption	Wmx	0.7	J	max.	Energy Absorption	Wmx	0.7	J	max.
(Reverse) Breakdown Voltage	Vbr	33	V	10%	(Reverse) Breakdown Voltage	Vbr	33	V	10%
(Channel) Input Capacitance	Cch	680	pF	typ.	(Channel) Input Capacitance	Cch	380	pF	typ.

(see next page)



82541250									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	25	V	max.	AC Operating Voltage	Vrms	25	V	max.
DC Operating Voltage	Vdc	30	V	max.	DC Operating Voltage	Vdc	30	V	max.
Clamping Voltage	Vclamp	72	V	max.	Clamping Voltage	Vclamp	72	V	max.
(Reverse) Peak Pulse Current	Ipeak	200	A	max.	(Reverse) Peak Pulse Current	Ipeak	200	A	max.
Energy Absorption	Wmx	1	J	max.	Energy Absorption	Wmx	1	J	max.
(Reverse) Breakdown Voltage	Vbr	39	V	10%	(Reverse) Breakdown Voltage	Vbr	39	V	10%
(Channel) Input Capacitance	Cch	620	pF	typ.	(Channel) Input Capacitance	Cch	620	pF	typ.

82541300									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	30	V	max.	AC Operating Voltage	Vrms	30	V	max.
DC Operating Voltage	Vdc	38	V	max.	DC Operating Voltage	Vdc	38	V	max.
Clamping Voltage	Vclamp	85	V	max.	Clamping Voltage	Vclamp	85	V	max.
(Reverse) Peak Pulse Current	Ipeak	200	A	max.	(Reverse) Peak Pulse Current	Ipeak	200	A	max.
Energy Absorption	Wmx	1.1	J	max.	Energy Absorption	Wmx	1.1	J	max.
(Reverse) Breakdown Voltage	Vbr	47	V	10%	(Reverse) Breakdown Voltage	Vbr	47	V	10%
(Channel) Input Capacitance	Cch	550	pF	typ.	(Channel) Input Capacitance	Cch	550	pF	typ.

82541350									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	35	V	max.	AC Operating Voltage	Vrms	35	V	max.
DC Operating Voltage	Vdc	45	V	max.	DC Operating Voltage	Vdc	45	V	max.
Clamping Voltage	Vclamp	90	V	max.	Clamping Voltage	Vclamp	108	V	max.
(Reverse) Peak Pulse Current	Ipeak	200	A	max.	(Reverse) Peak Pulse Current	Ipeak	200	A	max.
Energy Absorption	Wmx	0.8	J	max.	Energy Absorption	Wmx	1.1	J	max.
(Reverse) Breakdown Voltage	Vbr	56	V	10%	(Reverse) Breakdown Voltage	Vbr	56	V	10%
(Channel) Input Capacitance	Cch	400	pF	typ.	(Channel) Input Capacitance	Cch	230	pF	typ.

(see next page)



82551110									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	11	V	max.	AC Operating Voltage	Vrms	11	V	max.
DC Operating Voltage	Vdc	14	V	max.	DC Operating Voltage	Vdc	14	V	max.
Clamping Voltage	Vclamp	30	V	max.	Clamping Voltage	Vclamp	30	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.3	J	max.	Energy Absorption	Wmx	0.3	J	max.
(Reverse) Breakdown Voltage	Vbr	20	V	15%	(Reverse) Breakdown Voltage	Vbr	20	V	15%
(Channel) Input Capacitance	Cch	1150	pF	typ.	(Channel) Input Capacitance	Cch	660	pF	typ.

82551170									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	17	V	max.	AC Operating Voltage	Vrms	17	V	max.
DC Operating Voltage	Vdc	22	V	max.	DC Operating Voltage	Vdc	22	V	max.
Clamping Voltage	Vclamp	45	V	max.	Clamping Voltage	Vclamp	48	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	200	A	max.
Energy Absorption	Wmx	0.4	J	max.	Energy Absorption	Wmx	0.3	J	max.
(Reverse) Breakdown Voltage	Vbr	27	V	10%	(Reverse) Breakdown Voltage	Vbr	28.5	V	12%
(Channel) Input Capacitance	Cch	840	pF	typ.	(Channel) Input Capacitance	Cch	780	pF	typ.

82551200									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	20	V	max.	AC Operating Voltage	Vrms	20	V	max.
DC Operating Voltage	Vdc	26	V	max.	DC Operating Voltage	Vdc	26	V	max.
Clamping Voltage	Vclamp	54	V	max.	Clamping Voltage	Vclamp	54	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.5	J	max.	Energy Absorption	Wmx	0.5	J	max.
(Reverse) Breakdown Voltage	Vbr	33	V	10%	(Reverse) Breakdown Voltage	Vbr	33	V	10%
(Channel) Input Capacitance	Cch	490	pF	typ.	(Channel) Input Capacitance	Cch	600	pF	typ.

(see next page)



82551250									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	25	V	max.	AC Operating Voltage	Vrms	25	V	max.
DC Operating Voltage	Vdc	30	V	max.	DC Operating Voltage	Vdc	30	V	max.
Clamping Voltage	Vclamp	65	V	max.	Clamping Voltage	Vclamp	65	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.6	J	max.	Energy Absorption	Wmx	0.6	J	max.
(Reverse) Breakdown Voltage	Vbr	39	V	10%	(Reverse) Breakdown Voltage	Vbr	39	V	10%
(Channel) Input Capacitance	Cch	440	pF	typ.	(Channel) Input Capacitance	Cch	650	pF	typ.

82551300									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	30	V	max.	AC Operating Voltage	Vrms	30	V	max.
DC Operating Voltage	Vdc	38	V	max.	DC Operating Voltage	Vdc	38	V	max.
Clamping Voltage	Vclamp	77	V	max.	Clamping Voltage	Vclamp	77	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.7	J	max.	Energy Absorption	Wmx	0.7	J	max.
(Reverse) Breakdown Voltage	Vbr	47	V	10%	(Reverse) Breakdown Voltage	Vbr	47	V	10%
(Channel) Input Capacitance	Cch	400	pF	typ.	(Channel) Input Capacitance	Cch	600	pF	typ.

82551350									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	35	V	max.	AC Operating Voltage	Vrms	35	V	max.
DC Operating Voltage	Vdc	45	V	max.	DC Operating Voltage	Vdc	45	V	max.
Clamping Voltage	Vclamp	90	V	max.	Clamping Voltage	Vclamp	90	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.8	J	max.	Energy Absorption	Wmx	0.8	J	max.
(Reverse) Breakdown Voltage	Vbr	56	V	10%	(Reverse) Breakdown Voltage	Vbr	56	V	10%
(Channel) Input Capacitance	Cch	310	pF	typ.	(Channel) Input Capacitance	Cch	230	pF	typ.

(see next page)



82551500									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	50	V	max.	AC Operating Voltage	Vrms	50	V	max.
DC Operating Voltage	Vdc	65	V	max.	DC Operating Voltage	Vdc	65	V	max.
Clamping Voltage	Vclamp	135	V	max.	Clamping Voltage	Vclamp	135	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.5	J	max.	Energy Absorption	Wmx	0.5	J	max.
(Reverse) Breakdown Voltage	Vbr	85	V	10%	(Reverse) Breakdown Voltage	Vbr	85	V	9%
(Channel) Input Capacitance	Cch	240	pF	typ.	(Channel) Input Capacitance	Cch	240	pF	typ.

82551600									
Before Change					After Change				
Properties		Value	Unit	Tol.	Properties		Value	Unit	Tol.
AC Operating Voltage	Vrms	60	V	max.	AC Operating Voltage	Vrms	60	V	max.
DC Operating Voltage	Vdc	85	V	max.	DC Operating Voltage	Vdc	85	V	max.
Clamping Voltage	Vclamp	165	V	max.	Clamping Voltage	Vclamp	104	V	max.
(Reverse) Peak Pulse Current	Ipeak	100	A	max.	(Reverse) Peak Pulse Current	Ipeak	100	A	max.
Energy Absorption	Wmx	0.6	J	max.	Energy Absorption	Wmx	0.7	J	max.
(Reverse) Breakdown Voltage	Vbr	100	V	10%	(Reverse) Breakdown Voltage	Vbr	115	V	10%
(Channel) Input Capacitance	Cch	160	pF	typ.	(Channel) Input Capacitance	Cch	250	pF	typ.

(see next page)



RELIABILITY / QUALIFICATION OF CHANGE:

An additional reliability testing was performed and approved.

Qualification according to AEC-Q200 Rev table10.

Additional details of the tests can be found in the table below:

0402: 82537040, 82557140

0603: 82536040, 82536140, 82556250

1206: 82531040, 82541250

Acceptance Criteria	
# 1	No physical damage and electrical property (Breakdown Voltage, Leakage Current) meets datasheet both premeasurement and postmeasurement.
# 2	Inspect device construction, marking and workmanship. Electrical test not required.
# 3	Electrical test not required. Dimension meets datasheet.
# 4	Acceptability of Electronic Assemblies IPC-A-610 class 3.
# 5	Push off sample from PCB and force needs to be recorded.

Test Item	Sample Size	Reference	Test Conditions	Acceptance Criteria
Temperature Cycling	77	JESD22 Method JA-104	1000 cycles, from -40 °C (dwell time: 30 min) to 125 °C (dwell time: 30 min). Maximum transfer time: 1 min.	# 1 Approved
Biased Humidity	77	MIL-STD-202-103	85 °C, 85% RH, 1000 h	# 1 Approved
Operational Life	77	MIL-PRF-27	125 °C, 1000 h, maximum operation DC voltage from the datasheet	# 1 Approved
External Visual	ALL	MIL-STD-883-2009	N/A	# 2 Approved
Physical Dimension	30	JESD22 Method JB-100	N/A	# 3 Approved
Mechanical Shock	30	MIL-STD-202-213	3 shocks in each direction (x, -x, y, -y, z, -z), peak Valueue 100 g's, duration 6 ms, 3 shocks in each direction (x, -x, y, -y, z, -z), peak Valueue 100 g's, duration 6 ms, half-sine, velocity change 12.3 ft/s	# 1 Approved
Vibration	30	MIL-STD-202-204	10 g's for 20 min, 12 cycles each of 3 orientations, test from 15 Hz to 2000 Hz	# 3 Approved

(see next page)



Test Item	Sample Size	Reference	Test Conditions	Acceptance Criteria
Resistance to Soldering Heat	30	J-STD-020	Tp=260 ° C, tp=30 s to 35 s, 3 times reflow	# 1 Approved
ESD	15	AEC-Q200-002 or ISO/DIS10605	Test Environment: 22 °C ± 5 °C, Humidity: 30% to 60% Size Component Classification 0402 1C [1000 V (DC) to < 2000 V (DC)] 0603 1C [1000 V (DC) to < 2000 V (DC)] 1206 1C [1000 V (DC) to < 2000 V (DC)]	# 1 Approved
Solderability (SMD)	30	IPC-A-610	Steam Aging 8 h ± 15 min @ 93 °C, Tc=240 °C to 245 °C, tp = 20 s to 30 s	# 4 Approved
Electrical Characterization	30	User Spec.	Measure electrical property @ 20 °C, 125 °C, -55 °C	# 1 Approved
Board Flex	30	AEC-Q200-005	bending 2 mm (Min), 60 s to 65 s	# 1 Approved
Terminal Strength(SMD)	30	AEC-Q200-006	Product Type Push Off Force (N) 0402 3 N 0603 5 N 1206 10 N	# 5 Approved
Electrical Transient conduction	30	IEC 61000-4-5	Peak current: 1/3 Ipeak Number of pulses: 15	# 1 Approved
Washability	30	Internal standard	preconditions: soldered on PCB. Step1: Cleaning with medium A201 @ 60 °C, 20 min (Pre-heated on min.45 °C) Step2: Rinsing 1 with DI water @ 30 °C, 2 min Step3: Rinsing 2 with DI water @ 30 °C, 2 min Step4: Rinsing 3 with DI water @ 40 °C, 3 min Step5: Rinsing 4 with DI water @ 50 °C, 3 min Step6: Drying @ 90 °C, 30 min Unpowered.	# 1 Approved