

Product Group: TC/Tue Jan 3, 2023/PTN-TC-005-2022-REV-0



The DNA of tech."

Discontinuation of M34 and M35 Series

For further information, please contact your regional Vishay office.

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Description of Change: All M34 and M35 series capacitors will be discontinued due to lack of demand/sales.

Classification of Change: The cost of dedicating and maintaining these products is no longer cost effective based on market demand.

Expected Influence on Quality/Reliability/Performance: not applicable

Part Numbers/Series/Families Affected: Please see materials list on the succeeding page.

Vishay Brand(S): Vishay

Time Schedule:

Last Time Buy Date: Sun Jun 4, 2023

Last Time Ship Date: Thu Jan 4, 2024

Sample Availability: not applicable

Product Identification: not applicable

Qualification Data: not applicable

This PTN is considered approved, without further notification, unless we receive specific customer concerns before Thu Feb 2, 2023 or as specified by contract.

Issued By: Natalia Burakevich, natalia.burakevich@vishay.com

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PTN

Product Group: TC/Tue Jan 3, 2023/PTN-TC-005-2022-REV-0

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M35C306*006*ZS*	M35C686*006*ZS*	M35C227*006*ZS*	M35C256*008*ZS*	M35C566*008*ZS*
M35C187*008*ZS*	M35C206*010*ZS*	M35C476*010*ZS*	M35C127*010*ZS*	M35C157*010*ZS*
M35C156*015*ZS*	M35C336*015*ZS*	M35C826*015*ZS*	M35C107*015*ZS*	M35C106*025*ZS*
M35C226*025*ZS*	M35C566*025*ZS*	M35C686*025*ZS*	M35C805*030*ZS*	M35C156*030*ZS*
M35C476*030*ZS*	M35C566*030*ZS*	M35C156*035*ZS*	M35C396*035*ZS*	M35C505*050*ZS*
M35C106*050*ZS*	M35C336*050*ZS*	M35C405*060*ZS*	M35C825*060*ZS*	M35C276*060*ZS*
M35C355*075*ZS*	M35C685*075*ZS*	M35C226*075*ZS*	M35C255*100*ZS*	M35C475*100*ZS*
M35C106*100*ZS*	M35C175*125*ZS*	M35C365*125*ZS*	M35C685*125*ZS*	M34C477K006AZSS
M34C337K010AZSS	M34C157K015AZSS	M34C127K025AZSS	M34C107K030AZSS	M34C686K050AZSS
M34C476K060AZSS	M34C336K075AZSS	M34C156K100AZSS	M34C106K125AZSS	M34C477M006AZSS
M34C337M010AZSS	M34C157M015AZSS	M34C127M025AZSS	M34C107M030AZSS	M34C686M050AZSS
M34C476M060AZSS	M34C336M075AZSS	M34C156M100AZSS	M34C106M125AZSS	M34C477K006BZSS
M34C337K010BZSS	M34C157K015BZSS	M34C127K025BZSS	M34C107K030BZSS	M34C686K050BZSS
M34C476K060BZSS	M34C336K075BZSS	M34C156K100BZSS	M34C106K125BZSS	M34C477M006BZSS
M34C337M010BZSS	M34C157M015BZSS	M34C127M025BZSS	M34C107M030BZSS	M34C686M050BZSS
M34C476M060BZSS	M34C336M075BZSS	M34C156M100BZSS	M34C106M125BZSS	



Product Termination Notification

Product Group: Vishay Tantalum Capacitors / Issue Date / PTN-TC-005-2022 Rev 0

Discontinuation of M34 and M35 Series

DESCRIPTION OF CHANGE: All M34 and M35 series capacitors will be discontinued due to lack of demand/sales.

CLASSIFICATION OF CHANGE: Product Obsolence

REASON FOR CHANGE: The cost of dedicating and maintaining these products is no longer cost effective based on market demand.

EXPECTED INFLUENCE ON QUALITY/RELIABILTY/PERFORMANCE: N/A

PRODUCT CATEGORY: Capacitors, Wet Tantalum, Surface Mount, Molded Case

PART NUMBERS/SERIES/FAMILIES AFFECTED: M34 and M35

VISHAY BRAND(s): Vishay Tansitor; Vishay Sprague

TIME SCHEDULE: Last Time Buy Date: June 4, 2023 Last Time Shipment Date: January 4, 2024

SAMPLE AVAILABILITY: N/A

PRODUCT IDENTIFICATION: N/A

QUALIFICATION DATA: N/A

This PTN is considered approved, without further notification.

ISSUED BY: Jon Rhan jon.rhan@vishay.com

For further information, please contact your regional Vishay office.

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ONE OF THE WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENT

M34 Vishav



Wet Tantalum Capacitors Surface Mount, Molded Case



PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55 °C to + 85 °C (to + 125 °C with voltage derating)

Capacitance Tolerance: At 120 Hz, + 25 °C, ± 20 % standard, ± 10 %

DC Leakage Current (DCL Max.): At + 25 °C and above: Leakage current shall not exceed the values listed in the Standard Ratings table.

Life Test: Capacitors are capable of withstanding a 2000 h life test at a temperature of + 85 °C or + 125 °C at the applicable rated DC working voltage.

Following life test:

- 1. DCL, measured at + 85 °C rated voltage, shall not be in excess of the original requirement.
- 2. The equivalent series resistance shall not exceed 150 % of the initial requirement.
- 3. Change in capacitance shall not exceed 10 % from the initial measurement.

FEATURES

• Terminations: standard tin/lead (SnPb), 100 % tin (RoHS compliant) terminations available



- Very high capacitance, 10 μF to 470 μF 6 V to 125 V, - 55 °C to + 125 °C
- Very low ESR
- · High ripple current capability
- Low DCL
- Model M34 wet tantalum electrolytic chip capacitors incorporate the advantages of all the varieties of electrolytic capacitors and eliminate most of the disadvantages. These units have a transient reverse voltage capability and a higher ripple current capability than any other electrolytic type with similar combinations of capacitance and case size.
- Compliant to RoHS Directive 2002/95/EC

Note

Pb containing terminations are not RoHS compliant, exemptions may apply

APPLICATION NOTES

a)No continuous reverse voltage permissible.

- b)Transient reverse voltage surges are acceptable under the following conditions:
 - The peak reverse voltage does not exceed 1.5 V and the peak current times the duration of the reverse transient does not exceed 0.05 A. In addition, the repetition frequency of the reverse voltage surge is less than 10 Hz.
- c)The peak of the applied AC ripple and the applied DC voltage must not exceed the DC voltage rating of the capacitor.

ORDE	RING INF	ORMATION						
M34	С	826	М	125	В	Z	S	s
MODEL	CASE CODE		CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	TERMINATION AND PACKAGING	RELIABILITY LEVEL	TEMP	ESR
	See Ratings and Case Codes table	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	K = ± 10 % M = ± 20 %	This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating.	A = 100 % tin (RoHS compliant), bulk B = Std, tin/lead, bulk	Z = Non-ER	S = Std	S = Std

Note

· Packaging: The use of formed plastic tubes for packing bulk components is standard



M34 Vishay





MOUNTING

Due to the size and weight of these capacitors, we recommend that a supplemental mounting restraint to be used in printed circuit board attachment in addition to the reflowed solder.

One recommendation is to use an adhesive such as defined in the J-STD-001DS.

This is the Space Application Electronic Hardware Addendum to J-STD-001 (Requirements for Solder Electrical and Electronic Assemblies).



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STANDARD	RATIN	IGS								
CAPACITANCE	CASE		MAX. ESR AT	MAX. IMP. AT	MAX. DO	CL (μΑ) ΑΤ	MAX CH	. CAPACI IANGE (%	TANCE 6) AT	MAX. RIPPLE
(μF)	CODE	PART NUMBER	+ 25 °C 120 Hz (Ω)	- 55 °C 120 Hz (Ω)	+ 25 °C	+ 85 °C + 125 °C	- 55 °C	+ 85 °C	+ 125 °C	40 kHz RMS (mA)
		6 V	/ _{DC} AT + 85	°C; 4 V _{DC} A [.]	T + 125 °C					
470	С	M34C477(1)006(2)ZSS	0.9	12	1.0	3.0	- 75	+ 10	+ 20	1500
		10 '	V _{DC} AT + 85	°C; 7 V _{DC} A	T + 125 °C	;				
330	С	M34C337(1)010(2)ZSS	1.0	15	1.0	3.0	- 70	+ 8	+ 20	1400
		15 V	/ _{DC} AT + 85	°C; 10 V _{DC} /	AT + 125 °C	0				
150	С	M34C157(1)015(2)ZSS	1.1	25	1.0	3.0	- 45	+ 8	+ 20	1400
		25 V	/ _{DC} AT + 85	°C; 15 V _{DC} /	\T + 125 °C	0				
120	С	M34C127(1)025(2)ZSS	1.3	25	1.0	5.0	- 42	+ 8	+ 12	1250
		30 V	/ _{DC} AT + 85	°C; 20 V _{DC} /	AT + 125 °C	C				
100	С	M34C107(1)030(2)ZSS	1.3	25	1.0	5.0	- 38	+ 8	+ 12	1200
		50 V	/ _{DC} AT + 85	°C; 30 V _{DC} /	AT + 125 °C	C				
68	С	M34C686(1)050(2)ZSS	1.5	35	1.0	5.0	- 25	+ 8	+ 15	1050
		60 V	/ _{DC} AT + 85	°C; 40 V _{DC} /	AT + 125 °C	C				
47	С	M34C476(1)060(2)ZSS	2.0	44	1.0	5.0	- 25	+ 8	+ 12	1050
		75 V	/ _{DC} AT + 85	°C; 50 V _{DC} /	AT + 125 °C	C				
33	С	M34C336(1)075(2)ZSS	2.5	66	1.0	5.0	- 25	+ 5	+ 9	1050
	100 V _{DC} AT + 85 °C; 65 V _{DC} AT + 125 °C									
15	С	M34C156(1)100(2)ZSS	3.5	125	1.0	5.0	- 18	+ 3	+ 10	1050
		125	V _{DC} AT + 85	°C; 85 V _{DC}	AT + 125 °	С				
10	С	M34C106(1)125(2)ZSS	5.5	175	1.0	5.0	- 15	+ 3	+ 10	1050

Note

Part number definitions:

(1) Capacitance tolerance: K, M
(2) Termination/packaging: A = 100 % tin (RoHS compliant), bulk; B = Std, tin/lead, bulk
Reliability level: Z = Non-ER

Temperature: S = STD

ESR: S = STD

PERFORMANCE CHARACTERISTICS OF M34 CAPACITORS

ELECTRICAL CHARACTERISTICS	
ITEM	PERFORMANCE CHARACTERISTICS
Operating temperature range	- 55 °C to + 125 °C
Capacitor tolerance	± 20 %, ± 10 %, at 120 Hz
Capacitance change (maximum)	Limits per standard ratings table
ESR	Limits per standard ratings table
AC ripple current	Limits per standard ratings table
DCL (maximum leakage current)	Limits per standard ratings table
Impedance (maximum)	Limits per standard ratings table
Reverse voltage	 Reverse voltage shall be in accordance with DSCC drawing 93026. There shall be no continuous reverse voltage. Transient reverse voltage surges are acceptable under the following conditions: a) Peak reverse voltage is equal to or less than 1.5 V and the product of the peak current times the duration of the reverse transient is 0.05 A or less. b) The repetition rate of the reverse voltage surges is less than 10 Hz.
Surge voltage	Surge voltage shall be in accordance with MIL-PRF-39006 and Table II of DSCC93026. The DC rated surge voltage is the maximum voltage to which the capacitors should be subjected under any conditions. This includes transcients and ripple at the highest line voltage. The surge voltage is 115 % of rated DC working voltage.
Life test	The capacitors shall be capable of withstanding a 2000 h life test at 85 °C at rated voltage

3 For technical questions, contact: tantalum@vishay.com Document Number: 40106

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ENVIRONMENTAL CHARACTERISTICS						
ITEM	CONDITION	COMMENTS				
Hermeticity	MIL-PRF-39006	There shall be no evidence of leakage after testing to MIL-PRF-39006 specifications.				
Moisture resistance	MIL-PRF-39006	Tested in accordance to MIL-PRF-39006 for 30 cycles.				
Altitude	MIL-STD-202G, method 105 D	100 000 feet test				

MECHANICAL CHARACTERISTICS							
ITEM	CONDITION	COMMENTS					
Thermal shock	MIL-STD-202G, method 107 A	Per M39006 and DSCC93026, 30 cycles					
Shock	MIL-STD-202G, method 213 I	Per M39006 and DSCC93026, 100 g					
Vibration (high frequency)	MIL-STD-202G, method 204 D	Per M39006 and DSCC93026, 20 g					
Resistance to solder heat	MIL-STD-202G, method 210 F	Terminals at 260 °C for 10 s. The capacitor must not be visibly damaged and the electrical characteristics must not be affected.					
Solderability	ANSI J-STD-002	The terminations must be solderable per the MIL standard.					
Terminals	MIL-STD-1276	All terminals shall be permanently secured internally and externally, as applicable. All external joints shall be welded.					
Part markings	MIL-STD-1285	The part marking shall include Vishay name, trademark, capacitance, voltage, date code and lot symbol.					
Weight (typical) in g	3.5						



STANDARD PACKAGING QUANTITY						
SERIES	CASE CODE	BULK/TUBE				
M34	С	10 pcs				





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VISHA

Wet Tantalum Capacitors Surface Mount, Molded Case



- Molded surface mountable design
- Terminations: standard tin/lead (SnPb), 100 % tin (RoHS compliant) available
- Industry standard ratings
- Model M35 wet tantalum electrolytic chip compliant capacitors incorporate the advantages of all the varieties of electrolytic capacitors and eliminate most of the disadvantages. These units have a 3 V reverse voltage capability at + 85 °C and a higher ripple current capability than any other electrolytic type with similar combinations of capacitance and case size.
- Compliant to RoHS Directive 2002/95/EC

Note

* Pb containing terminations are not RoHS compliant, exemptions may apply

Life Test: Capacitors are capable of withstanding a 2000 h life test at a temperature of + 85 °C or + 125 °C at the applicable rated DC working voltage.

Following life test:

- 1. DCL, measured at + 85 °C rated voltage, shall not be in excess of the original requirement.
- 2. The equivalent series resistance shall not exceed 150 % of the initial requirement.
- 3. Change in capacitance shall not exceed 10 % from the initial measurement.
- **ORDERING INFORMATION** M35 826 м 125 в Z S L С MODEL CASE CAPACITANCE RELIABILITY TEMP ESR CAPACITANCE DC VOLTAGE RATING TERMINATION CODE TOLERANCE AT + 85 °C AND PACKAGING LEVEL $K = \pm 10 \%$ See A = 100 % tin Z = Non-ER S = StdS = Std. This is This is expressed in expressed in $M = \pm 20 \%$ Ratings volts. To complete the (RoHS compliant), L = Lowpicofarads. and Case three-digit block, bulk The first two zeros precede the B = Std, tin/lead, Codes voltage rating. A decimal point is table digits are the bulk significant indicated by an "R (6R3 = 6.3 V)figures. The third is the number of zeros to follow.

Note

• Packaging: The use of formed plastic tubes for packing bulk components is standard



Revision: 07-Nov-11

1 For technical guestions, contact: tantalum@vishay.com Document Number: 40095

Pb-free Available

4-VISHAV 0 405 *2200F-6V 059934

PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55 °C to + 85 °C (to + 125 °C with voltage derating)

Capacitance Tolerance: At 120 Hz, + 25 °C. \pm 20 % standard. \pm 10 %, \pm 5 % available as special.

DC Leakage Current (DCL Max.): At + 25 °C and above: Leakage current shall not exceed the values listed in the Standard Ratings Tables.

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M35

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MOUNTING

Due to the size and weight of these capacitors, we recommend that a supplemental mounting restraint to be used in printed circuit board attachment in addition to the reflowed solder.

One recommendation is to use an adhesive such as defined in the J-STD-001DS.

This is the Space Application Electronic Hardware Addendum to J-STD-001 (Requirements for Solder Electrical and Electronic Assemblies).

STANDARD RATINGS										
CAPACITANCE	CAPACITANCE CASE		MAX ESB I	MAX. ESR	MAX. DO	CL (µA) AT	MAX. CAPACITANCE CHANGE (%) AT			MAX. RIPPLE
(μF)	CODE	PART NUMBER	AT + 25 °C	AT - 55 °C	+ 25 °C	+ 85 °C + 125 °C	- 55 °C	+ 85 °C	+ 125 °C	40 KHZ RMS (mA)
		6	V _{DC} AT + 85 °	°C; 4 V _{DC} AT	+ 125 °C					
30	С	M35C306(1)006(2)ZS(3)	4.0	100	1.0	2.0	- 40	+ 10.5	+ 12	820
68	С	M35C686(1)006(2)ZS(3)	3.2	60	1.0	2.0	- 40	+ 14	+ 16	960
220	С	M35C227(1)006(2)ZS(3)	3.0	36	2.0	9.0	- 64	+ 13	+ 16	1000
		8 '	V _{DC} AT + 85 °	°C; 5 V _{DC} AT	+ 125 °C					
25	С	M35C256(1)008(2)ZS(3)	4.0	100	1.0	2.0	- 40	+ 10.5	+ 12	820
56	С	M35C566(1)008(2)ZS(3)	3.3	59	1.0	2.0	- 40	+ 14	+ 16	900
180	С	M35C187(1)008(2)ZS(3)	3.0	45	2.0	9.0	- 60	+ 13	+ 16	1000
10 V _{DC} AT + 85 °C; 7 V _{DC} AT + 125 °C										
20	С	M35C206(1)010(2)ZS(3)	4.0	120	1.0	2.0	- 32	+ 10.5	+ 12	820
47	С	M35C476(1)010(2)ZS(3)	3.7	90	1.0	2.0	- 36	+ 14	+ 16	855
120	С	M35C127(1)010(2)ZS(3)	3.2	54	2.0	6.0	- 40	+ 14	+ 16	900
150	С	M35C157(1)010(2)ZS(3)	3.0	54	2.0	9.0	- 55	+ 13	+ 16	900

Note

• Part number definitions:

(1) Capacitance tolerance: K, M

(2) Termination/packaging: (see Ordering Information)

Reliability level: Z = Non-ER

Temperature: S = STD(3) ESR: S = STD, L = Low (1/2 standard ESR value)

2



M35

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STANDARD	RATIN	IGS								
CAPACITANCE	CASE		MAX. ESR	MAX. ESR	MAX. DO	CL (μΑ) ΑΤ	MAX. CH	. CAPACI IANGE (%	TANCE 6) AT	MAX. RIPPLE
(μF)	CODE	PART NUMBER	AT + 25 °C	AT - 55 °C	+ 25 °C	+ 85 °C + 125 °C	- 55 °C	+ 85 °C	+ 125 °C	40 KHZ RMS (mA)
		15	V _{DC} AT + 85 °	°C; 10 V _{DC} A	T + 125 °C	;				
15	С	M35C156(1)015(2)ZS(3)	4.4	155	1.0	2.0	- 24	+ 10.5	+ 12	780
33	С	M35C336(1)015(2)ZS(3)	4.0	90	1.0	2.0	- 28	+ 14	+ 16	820
82	С	M35C826(1)015(2)ZS(3)	3.9	72	2.0	6.0	- 35	+ 12	+ 16	900
100	С	M35C107(1)015(2)ZS(3)	3.9	72	2.0	9.0	- 44	+ 13	+ 16	900
		25	V _{DC} AT + 85 °	°C; 15 V _{DC} A	T + 125 °C	;				
10	С	M35C106(1)025(2)ZS(3)	5.3	220	1.0	2.0	- 16	+ 8	+ 9	715
22	С	M35C226(1)025(2)ZS(3)	4.2	140	1.0	2.0	- 20	+ 10.5	+ 12	800
56	С	M35C566(1)025(2)ZS(5)	4.3	90	2.0	6.0	- 25	+ 12	+ 15	850
68	С	M35C686(1)025(2)ZS(5)	4.3	90	2.0	9.0	- 40	+ 12	+ 15	850
		30	V _{DC} AT + 85 °	°C; 20 V _{DC} A	T + 125 °C	;				
8	С	M35C805(1)030(2)ZS(3)	6.6	275	1.0	2.0	- 16	+ 8	+ 12	640
15	С	M35C156(1)030(2)ZS(3)	6.2	175	1.0	2.0	- 20	+ 10.5	+ 12	780
47	С	M35C476(1)030(2)ZS(3)	5.2	100	2.0	6.0	- 23	+ 12	+ 15	800
56	С	M35C566(1)030(2)ZS(3)	5.2	100	2.0	9.0	- 38	+ 12	+ 15	800
		35	V _{DC} AT + 85 °	°C; 22 V _{DC} A	T + 125 °C	;				
15	С	M35C156(1)035(2)ZS(3)	6.2	175	0.75	1.5	- 20	+ 10.5	+ 12	660
39	С	M35C396(1)035(2)ZS(3)	4.1	61	2.0	6.0	- 22	+ 12	+ 14	820
		50 \	V _{DC} AT + 85 °	°C; 30 V _{DC} A	T + 125 °C	;				
5	С	M35C505(1)050(2)ZS(3)	8.0	400	1.0	2.0	- 16	+ 5	+ 6	580
10	С	M35C106(1)050(2)ZS(3)	6.4	250	1.0	2.0	- 24	+ 8	+ 9	715
33	С	M35C336(1)050(2)ZS(3)	5.0	135	2.0	9.0	- 29	+ 10	+ 12	700
		60 '	V _{DC} AT + 85 °	°C; 40 V _{DC} A	T + 125 °C	;				
4	С	M35C405(1)060(2)ZS(3)	9.3	550	1.0	2.0	- 16	+ 5	+ 6	525
8.2	С	M35C825(1)060(2)ZS(3)	6.6	275	1.0	2.0	- 24	+ 8	+ 9	625
27	С	M35C276(1)060(2)ZS(3)	5.0	144	3.0	12	- 24	+ 10	+ 12	700
		75	V _{DC} AT + 85 °	°C; 50 V _{DC} A	T + 125 °C	;				
3.5	С	M35C355(1)075(2)ZS(3)	9.5	650	1.0	2.0	- 16	+ 5	+ 6	525
6.8	С	M35C685(1)075(2)ZS(3)	6.8	300	1.0	2.0	- 20	+ 8	+ 9	610
22	С	M35C226(1)075(2)ZS(3)	5.1	157	3.0	12	- 19	+ 10	+ 12	600
		100	V _{DC} AT + 85	°C; 65 V _{DC} A	T + 125 °C	0				
2.5	С	M35C255(1)100(2)ZS(3)	10.6	950	1.0	2.0	- 16	+ 7	+ 8	505
4.7	С	M35C475(1)100(2)ZS(3)	8.5	500	1.0	2.0	- 16	+ 7	+ 8	565
10	С	M35C106(1)100(2)ZS(3)	5.9	200	3.0	12	- 17	+ 10	+ 12	800
		125	V _{DC} AT + 85	°C; 85 V _{DC} A	T + 125 °C	0				
1.7	С	M35C175(1)125(2)ZS(3)	15.6	1250	1.0	2.0	- 16	+ 7	+ 8	415
3.6	С	M35C365(1)125(2)ZS(3)	10.0	600	1.0	2.0	- 16	+ 7	+ 8	520
6.8	С	M35C685(1)125(2)ZS(3)	11.7	300	3.0	12	- 14	+ 10	+ 12	700

Note

Part number definitions: •

(1) Capacitance tolerance: K, M
(2) Termination/packaging: (see Ordering Information) Reliability level: Z = Non-ER

Temperature: S = STD

(3) ESR: S = STD, L = Low (1/2 standard ESR value)



M35 Vishay

PERFORMANCE CHARACTERISTICS OF M35 CAPACITORS

ELECTRICAL CHARACTERISTICS					
ITEM	PERFORMANCE CHARACTERISTICS				
Operating temperature range	- 55 °C to + 125 °C				
Capacitor tolerance	± 20 %, ± 10 % at 120 Hz				
Capacitance change (maximum)					
ESR					
AC ripple current	Limits per Standard Ratings table. Measured per requirements of MIL-PRF-39006.				
DCL (maximum leakage current)					
Impedance (maximum)					
Boverse veltage	Reverse voltage shall be in accordance with MIL-PRF-39006/22.				
Heverse voltage	Units are capable of withstanding 3 V in reverse at + 85 °C for 125 h.				
	Surge voltage shall be in accordance with MIL-PRF-39006.				
Surge voltage	The DC rated surge voltage is the maximum voltage to which the capacitors should be subjected under any conditions. This includes transients and peak ripple at the highest line voltage. The surge voltage is 115 % of rated DC working voltage.				
Life test	The capacitors shall be capable of withstanding a 2000 h life test at 85 °C at rated voltage.				

ENVIRONMENTAL CHARACTERISTICS						
ITEM	CONDITION	COMMENTS				
Hermeticity	MIL-PRF-39006	The internal component has been tested to be compliant to the				
Moisture resistance	MIL-PRF-39006	hermeticity requirements of MIL-PRF-39006/22.				
Altitude/barometric pressure (reduced)	MIL-PRF-39006	The internal component has been tested to be compliant to the moisture resistance requirements of MIL-PRF-39006/22. The internal component has been tested to be compliant to the altitude or reduced barometric pressure requirements of MIL-PRF-39006/22 (150 000 feet).				

MECHANICAL CHARACTERISTICS				
ITEM	CONDITION	COMMENTS		
Thermal shock	MIL-STD-202, Method 107, A	Per MIL-PRF-39006, 30 cycles		
Shock	MIL-STD-202, Method 213	Per MIL-PRF-39006, 500 g		
Vibration (high frequency)	MIL-STD-202, Method 204	Per MIL-PRF-39006, 80 g		
Vibration (random)	MIL-STD-202, Method 214	Per MIL-PRF-39006, 53.79 g		
Resistance to solder heat	MIL-STD-202, Method 210	The capacitor must withstand solder dipping of the terminals at 260 °C for 10 s. The capacitor must not be visibly damaged and the electrical characteristics must not be affected.		
Solderability	ANSI J-STD-002	The terminations must be solderable per the requirements of MIL-PRF-55365 para. 4.10		
Part markings	MIL-STD-1285	The part marking shall include Vishay name, trademark, capacitance, voltage, date code and lot symbol.		
Weight (typical) in g	3.5			

PAD DIMENSIONS in millimeters					
	◄		A		
CASE CODE	A (MIN.)	B (NOM.)	C (NOM.)	D (NOM.)	
С	22.7	14.7	4.0	6.4	

STANDARD PACKAGING QUANTITY					
SERIES	CASE CODE	BULK/TUBE			
M35	С	10 pcs			

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