No. P-JHCN-E002 DATE 2023-09

PRODUCTS DATA SHEET

MICRO FUSE

Type JHCN

Size 7.3 mm x 5.8 mm

Conforms to AEC-Q200 Table. 7

UL. cUL Recognized
RoHS directive compliant product <RoHS COMPLIANT LEAD FREE>



With the spread of HV and EV vehicles, the use of large-capacity batteries is increas ing. The micro fuse JHC type N series was developed for circuit protection against overcurrent in automotive and industrial equipment.

By adopting a structure in which the fuse element and terminals are integrated, we have achieved a small size and high current rating even though it is a surface mount type. By making it completely lead-free, it is designed to be environmentally friendly.



MATSUO ELECTRIC CO., LTD.

FEATURES

- 1. A high current rating is achieved by adopting a structure in which the fuse element and terminals are integrated.
- 2. 7.3 x 5.8 x 4.2 mm (0.29 x 0.23 x 0.17 inch) size small surface mount type.
- 3. The surface temperature rise is 75°C or less when the rated current is applied, making it a fuse that has little impact on the surroundings.
- 4. Alumina ceramics are used for the case, and a unique structure is used inside the case to improve safety during fusing.
- 5. Suitable for automatic mounting.
- 6. Complete lead-free.



CLEARING CHARACTERISTICS

Rated Current	Rated Voltage	Breaking Current
30 A~50 A	30 A~50 A 60 VDC	
60 A	60 VDC	600 A
80 A ∼100 A	35 VDC	600 A

CERTIFICATION

Conforms to	AEC-Q200 Table.7
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Certification Body	File No.	Range of Rated Current
UL.cUL Recognized	E170721	30 A \sim 100 A

CATEGORY TEMPERATURE RANGE

-40 °C ∼ +125 °C

INSULATION RESISTANCE

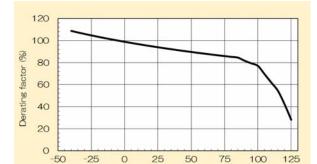
1000 MΩ (between terminals and case)

VOLTAGE DROP

Rated Current	Voltage drop
30 A∼50 A	80 mV
60 A~80 A	90 mV
100 A	100 mV

DERATING (REFERENCE DATA)

Steady current flowing through the fuse must be reduced by the ambient temperature. Assuming that rated current value is 100% Derating



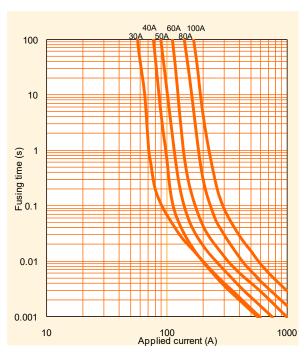
Temperature (°C)

FUSING CHARACTERISTICS

% of current rating	Time	
100 %	Not fusing more than 1 hour	
250 %	Fusing within 1 minute	

FUSING CHARACTERISTICS (REFERENCE DATA)

Fusing Characteristics

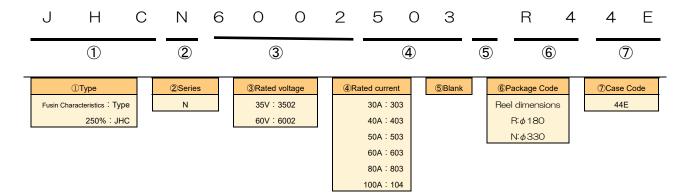


CATALOG NUMBERS AND RATING

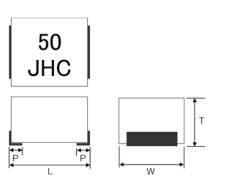
Code	Catalog Numbers	Rated Current	Typical electrical resistance
JHC 30A	JHCN6002303 □44E	30 A	1.48mΩ
JHC 40A	JHCN6002403 □44E	40 A	1.10 mΩ
JHC 50A	JHCN6002503 □44E	50 A	0.90 mΩ
JHC 60A	JHCN6002603 □44E	60 A	0.74 mΩ
JHC 80A	JHCN3502803 □44E	80 A	0.56 mΩ
JHC 100A	JHCN3502104 □44E	100 A	0.47 mΩ

[•] For the taping type, the packing code "R or N" will be entered in $\ \square$.

ORDERING INFORMATION

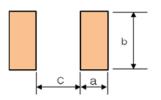


DIMENSIONS



			(mm)
L	W	Т	Р
7.3 ^{±0.3}	5.8 ^{±0.2}	4 2 ± 0.2	12 ^{±0.3}

RECOMMENDED PAD DIMENSIONS

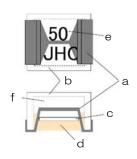


(mm)
Size 7358
2.7
5.8
4.4

Reflow

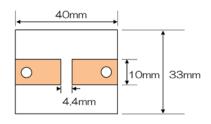
Please refer to the performance below for the temperature conditions of soldering.

CONSTRUCTION



No.	Name	Material, standard, and treatment
а	All-in-one fuse element with terminal	Copper Alloy (Tin plating terminal)
b	Ceramic case	Alumina ceramics
С	Ceramic plate	Alumina ceramics
d	Seal resin	Silicone resin
е	Marking	UV curable resin
f	Empty space	_

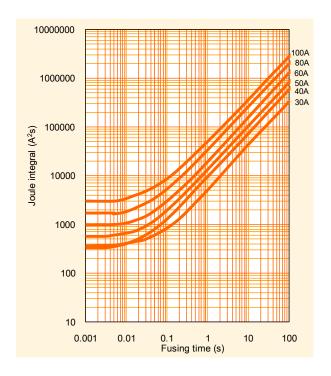
STANDARD TEST BODY



Single-sided glass epoxy board Substrate thickness 1.6mm Pattern copper foil thickness 400 μm

I²t - t CHARACTERISTICS (REFERENCE DATA)

I2t - t Characteristics



APPLICATION CLASSIFICATION BY USE

The application classification by use which divided the market and use into four is set up supposing our products being used for a broad use.

Please confirm the application classification by use of each product that you intend to use.

Moreover, please be sure to inform to our Sales Department in advance in examination of the use of those other than the indicated use.

PERFORMANCE

Item	Performance	Test method
Temperature rise	Temperature rise shall not exceed 75°C.	Apply rated current.
Current-carrying capacity	Shall not open within 1 hour.	Apply rated current.
Classins	Marking shall be legible.	Rated Current: 30 A~50 A: 60 VDC, 300A
Clearing	Shall not ignite, shall not explode the exterior	Rated Current: 60 A: 60 VDC, 600A
characteristics		Rated Current : 80 A~ 100 A : 35 VDC, 600A
Voltage drop	Type JAJ: 99mV, Type JAK: 83mV	Apply rated current.
Fusing characteristics	Fusing within 1 min.	Ambient temperature : 10 ~ 30°C
-		Apply 250% of rated current.
Insulation resistance	1 MΩ or more	Insulation resistance between terminals and case
Electrode strength	No mechanical damage. Resistance change after the test shall be within \pm 20%.	Board supporting width: 90 mm Bending: 3 mm
(Bending)	resistance change and the test shall be within ± 25%.	Bending speed : Approx. 0.5 mm/sec. Duration : 60±5 sec.
Electrode strength	There is no peeling between the terminal and the substrate.	Applied force: 17.7 N
(Shear test)	Resistance change after the test shall be within \pm 20%.	Duration : 10 sec. Tool : R0.5
		Pressurize from the side of the product
	No mechanical damage.	Supporting dimension : 1.6 mm
Substrate bending	Resistance change after the test shall be within \pm 20%.	Applied force : 20 N
test		Duration : 10 sec. Tool : R0.5
		Direction of the press : thickness direction of product
	Solder Wetting time : within 3sec.	Solder : Sn-3Ag-0.5Cu
0.11 1.33		Temperature : 245±3°C
Solderability		meniscograph method
(Solder Wetting time)		Solder: JISZ3282 H60A,H60S,H63A Temperature: 230±2°C
		meniscograph method
	The dipping surface of the terminals shall be covered more than	Solder: Sn-3Ag-0.5Cu
Solderability	95% with new solder.	Temperature: 245±3°C
(new uniform coating of		Dipping : 3 sec. Solder : JISZ3282 H60A,H60S,H63A
solder)		Temperature: 230±2°C
		Dipping: 3 sec.
	Marking shall be legible.	Measure after 1 hour left under room temperature and humidity.
	No mechanical damage.	After soldering, leave it in normal temperature and humidity for 1 hour or more,
	Resistance change after the test shall be within \pm 20%.	and measure the resistance value.
		<soldering conditions=""></soldering>
		Dipping (1 cycle) Preconditioning: 100~150°C / 60±5s
Resistance to		Temperature : 265±3°C / 6~7s .
soldering heat		Reflow soldering (2 cycles)
		Preconditioning : 1~2min 180°C or less Peak : max 250±5°C 5s
		Holding: 230~250°C 30~40s
		Cooling : more than 2min
		Manual soldering Temperature : 350±10°C
		Duration : 3~4s
Vibration	No mechanical damage.	Vibration amplitude: 5G (49m/s²) , Vibration time: 20min
	Resistance change after the test shall be within \pm 20%.	Frequency range: 10~2000Hz
		Number of cycles: 12 cycles each in 3 directions of XYZ (36 in total)
Shock	No mechanical damage.	Peak acceleration: 1500G (14700m/s²)
	Resistance change after the test shall be within \pm 20%.	Duration: 0.5ms, Wave form: Half-sine, Speed change: 4.7m/s
		6 sides x 3 times (18 times in total)
Temperature cycle	No mechanical damage.	Perform 1000 cycles, with steps 1 and 2 below as one cycle. The transition
	Resistance change after the test shall be within \pm 20%.	time between stage 1 and stage 2 shall be within 3 min.
		Step1: -55°C±3°C/30±3min
		Step2: 125±2°C/30±3min
Moioturo resistante	No mechanical damage.	Temperature : 85±3°C Humidity : 85±5%RH
Moisture resistance	Resistance change after the test shall be within \pm 20%.	Duration : 1000 h
1 126	N No mechanical damage.	Temperature : 85±2°C, Current : rated current × 70%, Duration : 1000 h
Load life	Resistance change after the test shall be within \pm 20%.	Temperature : 125±2°C, Current : rated current × 60%, Duration : 1000 h
	No mechanical damage.	Temperature : 85±3°C
Moisture resistance	Resistance change after the test shall be within \pm 20%.	Humidity: 85±5%RH
load		Current : rated current × 70% Duration : 1000 h
High temperature	No mechanical damage.	Temperature : 125±2°C
High temperature exposure	Resistance change after the test shall be within \pm 20%.	No electricity,
(Stability)	···· =···	Duration : 1000 h
	Marking shall be legible	Dipping rinse
Solvent resistance	Marking shall be legible.	Solvent : Isopropyl alcohol
	No damage to the appearance. The resistance value after the test must be within ± 20% of the	Duration : 90 sec.
	resistance value before the test.	
ESD resistance		ESD-HBM circuit Rd=2kOhm, Cd=150pF
ESD resistance	No mechanical damage. Resistance change after the test shall be within + 20%	Withstand voltage: 4000 - 6000V by contact discharge
	Resistance change after the test shall be within ± 20%.	

Item	Performance	Test method
High and Low Temp	No mechanical damage, and the resistance value cleared the following standard. (1) Step 1 (20±2°C): Initial resistance value (2) Step 2 (-40±3°C): Within -17% to +3% of Step 1 result (3) Step 3 (20±2°C): Within ±5% of Step 1 result (4) Step 4 (85±2°C): Within -3% to +17% of Step 1 result (5) Step 5 (125±2°C): Within +2% to +22% of Step 1 result (6) Step 6 (20±2°C): Within ±5% of Step 1 result	(1) Step 1 (20±2°C) (2) Step 2 (-40±3°C) (3) Step 3 (20±2°C) (4) Step 4 (85±2°C) (5) Step 5 (125±2°C) (6) Step 6 (20±2°C) In order from (1) to (6), changing the temp and measuring the resistane charge.

Application Notes for Micro Fuse

Before using HIGH CURRENT MICRO FUSE, be sure to fully check after confirming operating conditions and Micro Fuse characteristics. When determining the rated current, be sure to observe the following items:

(1) HIGH CURRENT MICRO FUSE should always be operated below the value considered in the rated derating rate and temperaturederating

- rate for rated current.
- (2) HIGH CURRENT MICRO FUSE should always be operated below rate for rated current.
- (3) HIGH CURRENT MICRO FUSE should be selected with rated value to be certainly fused at overload current.
- (4) When HIGH CURRENT MICRO FUSE are used in inrush current applications, please confirm sufficiently inrush resistance of HIGH CURRENT
- (5) Please do not apply the current exceeding the rated breaking current to HIGH CURRENT MICRO FUSE.

In addition, I would like confirmation beforehand not to have possibilities to cut if off normally when you uses it by a high inductance circuit.

- (6) Use HIGH CURRENT MICRO FUSE under the condition of category temperature.
- (7) HIGH CURRENT MICRO FUSE should not be used in the AC power source and primary power source.
- (8) In a 25°C environment under normal circumstances, please design substrate wiring so that the surface temperature of a fuse does not exceed 80°C. And, please use after checking that turn on operating current and overload current by an actual substrate in advance, and it is satisfactory

Please confirm whether the selection of the rating of HIGH CURRENT MICRO FUSE was appropriate in the actual device (state of final product). In that case, after considering the variation due to the product, repeat the tests for normal use and predictable abnormalities to confirm the validity

2. Assembly and Mounting

During the entire assembly process, observe HIGH CURRENT MICRO FUSE body temperature and the heating time specified in the performance table. In addition, observe the following items:

- (1) Mounting and adjusting with soldering irons are not recommendable since temperature and time control is difficult.
- (2) Once HIGH CURRENT MICRO FUSE mounted on the board, they should never be remounted on boards or substrates.
- (3) During mounting, be careful not to apply any excessive mechanical stresses to the HIGH CURRENT MICRO FUSE.

3. Solvents

HIGH CURRENT MICRO FUSE has no effect when immersed in is isopropyl alcohol for 90 seconds (at 20 ~ 30°C liquid temp.)

If organic solvents will be used to HIGH CURRENT MICRO FUSE, be sure to preliminarily check that the solvent will not damage HIGH CURRENT MICRO FUSE

4. Ultrasonic Cleaning

Ultrasonic cleaning is not recommended for HIGH CURRENT MICRO FUSE. This may cause damage to HIGH CURRENT MICRO FUSE such as broken terminals which results in electrical characteristics effects, etc. depending on the conditions.

5. Caution During Usage

(1) HIGH CURRENT MICRO FUSE with electricity should never be touched.

HIGH CURRENT MICRO FUSE with electricity may cause burning due to HIGH CURRENT MICRO FUSE high temperature.

Also, in case of touching HIGH CURRENT MICRO FUSE without electricity, please check the safety temperature of HIGH CURRENT MICRO FUSE.

(2) Protective eye glasses should always be worn when performing fusing tests.

However, there is a fear that HIGH CURRENT MICRO FUSE will explode during test.

During fusing tests, please cover particles not to fly outward from the board or testing fixture. Caution is necessary during usage at all times.

6. Environmental Conditions

- (1) HIGH CURRENT MICRO FUSE should not be stored or operated in the presence of acids, or alkalis, or corrosive atmosphere.
- (2) HIGH CURRENT MICRO FUSE should not be vibrated, shocked, or pressed excessively.
- (3) HIGH CURRENT MICRO FUSE should not be operated in a flammable or explosive atmosphere.
- (4) HIGH CURRENT MICRO FUSE should not be used under dew condensation environment.
- (5) Covering HIGH CURRENT MICRO FUSE with resin after mounting it on the board may affect the electrical characteristics, so perform thorough evaluation in advance.

7. Emergency

In case of fire, smoking, or offensive odor during operation, please cut off the power in the circuit or pull the plug out.

(1) HIGH CURRENT MICRO FUSE should not be stored in an environment with high temperature, low temperature, high humidity, condensation and dust and avoid direct sunlight

HIGH CURRENT MICRO FUSE should not be stored in corrosive atmosphere such as H₂S(hydrogen sulfide) or SO₂(sulfur dioxide).

Direct sunlight may cause decolorization and deformation of the exterior and taping.

Also, there is a fear that solderability will be remarkably lower in high humidity.

- (2) If the products are stored for an extended period of time, please contact Matsuo Sales Department for recommendation. The longer storage term causes packages and tapings to worsen. If the products are stored for longer term, please contact Matsuo Sales Department for advice.
- (3) The products in taping, package, or box should not be given any kind of physical pressure. Deformation of taping or package may affect automatic mounting.
- (4) The plastic reel (made of PS) used for packaging the product is intended for use in ambient temperatures (5-35°C). To prevent issues during automated insertion due to reel deformation or other factors, please keep the reel away from direct sunlight and heat sources, and ensure it does not reach high temperatures (above 60°C), including during transportation.

9. Disposal

When HIGH CURRENT MICRO FUSE are disposed of as waste or "scrap", they should be treated as "industrial waste".

10. Samples

HIGH CURRENT MICRO FUSE received as samples should not be used in production applications. A sample is provided for the special use (in such cases as the one for the form sample, the electriccharacteristic confirmation)



MATSUO ELECTRIC CO., LTD.

Please feel free to ask our Sales Department for more information on Micro Fuse.

Overseas Sales 5-3,3-Chome, Sennari-cho, Toyonaka-shi, Osaka 561-8558, Japan Tel: 06-6332-0883 Fax: 06-6332-0920 Head office 5-3,3-Chome,Sennari-cho,Toyonaka-shi,Osaka 561-8558,Japan Tel:06-6332-0871 Fax:06-6331-1386

URL https://www.ncc-matsuo.co.jp/

Specifications on this catalog are subject to change without prior notice. Please inquire of our Sales Department to confirm specifications prior to use.

市場	適用用途		推奨品種	推奨品種	推奨品種	推奨品種	
1172	分類	概要	代表的なアプリケーション例	チップタンタルコンデンサ	リード付タンタルコンデンサ	回路保護素子	フィルムコンデンサ
高信頼度 機器	1	高度な安全性や信頼性が要求される機器 製品の保守交換が不可能な機器、製品の故障が人命に 直接かかわる。または、致命的なシステムダウンを引 き起こす可能性がある機器	・宇宙開発機器関連(衛星、ロケット、人工衛星)・航空・防衛システム・原子カ・火力・水力発電システム	267型Pシリーズ	111型Pシリーズ	該当なし	該当なし
車載 • 産業機器	2	信頼性が重視される機器 ・製品の保守交換が極めて困難な機器や、製品の故障が 人命に影響する、あるいは故障の範囲が広範囲である 機器	・自動車および鉄道・船舶等の輸送機器の車両制御 (エンジン制御、駆動制御、ブレーキ制御) ・新幹線・主要幹線の運行制御システム	267型Nシリーズ 271型Nシリーズ 279型Mシリーズ	111型Nシリーズ 111型Mシリーズ 112型Mシリーズ 204型Nシリーズ 247型	JAG型Nシリーズ JAJ型Nシリーズ JAK型Nシリーズ JHC型Nシリーズ KAB型Nシリーズ KVA型Nシリーズ	431型 431型Aシリーズ 503型 553型
	3	 製品の保守交換が可能な機器や、製品の故障が人命に 影響しないが故障によるシステムダウンの損失が大き く保全管理が要求される機器 	・エアコン、カーナビ等の車室内搭載部品、 車載用通信機器 ・家庭用/ビル用等のセキュリティ管理システム ・工業用ロボットや工作機械等の制御機器	267型Mシリーズ 267型Eシリーズ 281型Mシリーズ TCA型	204型Mシリーズ	KAB型Mシリーズ	801型 802型
汎用機器	4	・ 最先端技術を積極的に適用する小型・薄型品 ・ 製品の保守交換が可能な機器や、製品の故障による システムダウンが部分的な機器向けの市場で広く 使用されることを想定した製品	・スマートフォン、携帯電話、モバイルPC(タブレット)、電子辞書 ・デスクトップPC、ノートPC、ホームネットワーク ・アミューズメント機器(バチンコ、ゲーム機)	251型Mシリーズ 281型Eシリーズ TCB型		JAE型、JAG型 JAJ型、JAK型 JHC型 KAB型 KAB型Tシリーズ KVA型	503型Aシリーズ

Market	Application classification		Use	Recommendation Type	Recommendation Type	Recommendation Type	Recommendation Type
iviarket	by use	Outline	Typical example of application	Chip Tantalum Capacitors	Leaded Tantalum Capacitors	Circuit Protection Components	Film Capacitors
High reliability apparatus	1	Apparatus in which advanced safety and reliability are demanded. Whether fallure of the apparatus which cannot maintenance exchange products, and a product is direct for a human life, apparatus which changes or may cause a fatal system failure.	- Space development apparatus relation (Satellite, Rocket, Artificial Satellite) - Aviation and a defensive system - Atomic power, fire power, and a water-power generation system	Type 267 P Sereis	Type 111 P series	With no relevance	With no relevance
In-vehicle -	2	- Apparatus in which reliability is important The apparatus in which maintenance exchange of a product is very difficult, and failure of a product influence a human life, or the range of failure is wide range.	- Vehicles control of transport machines, such as a car, and a railroad, a vessel (Engine control, drive control, brake control) - The operation control system of the Shinkansen and a main artery	Type 267 N Sereis Type 271 N Sereis Type 279 M Sereis	Type 111 N series Type 111 M series Type 112 M series Type 204 N series Type 247	Type JAG N series Type JAJ N series Type JAK N series Type JHC N series Type KAB N series Type KVA N series	Type 431 Type 431 A series Type 503
Industrial apparatus	3	-Apparatus which can maintenance exchange products, and apparatus in which the loss of the system failure is large although failure of a product does not influence a human life, and maintenance engineering is demanded		Type 267 M Sereis Type 267 E Sereis Type 281 M Sereis Type TCA	Type 204 M series	Type KAB M series	Type 553 Type 801 Type 802
Apparatus in general	4	- The small size and the thin article which applies leading-edge technology positively - The product supposing being used widely in the market for the apparatus which can maintenance exchange products, and apparatus with a partial system failure by failure of product.	-Smart phone, Mobile phone, Mobile PC (tablet), Electronic dictionary - Desktop PC, Notebook PC, Home network - Amusement apparatus (Pachinko,Game machine)	Type 251M Series Type 281 E Series Type TCB		Type JAE, Type JAG Type JAJ, Type JAK Type JHC Type KAB Type KAB T series Type KVA	Type 503 A series

テーピング数量・リール寸法

Taping Quantity And Carrier Tape Dimensions

チップタンタルコンデンサ Chip Tantalum Capacitors

定格: 251型Mシリーズ, TCB型 Type: 251 M Series, TCB

ケース記号 Case Code	ケースサイズ Case size	W (mm)	F (mm)	E (mm)	P ₁ (mm)	P ₂ (mm)	P ₀ (mm)	φD ₀ (mm)	包装数/リール(個) Quantity/Reel (pcs) <i>ф</i> 180
U	1.0×0.5		8.0±0.3 3.5±0.05 1.75±0.		2.0±0.05			1.55±0.03	10,000
M	1.6×0.8	0.010.3		1 75 10 1	4.0±0.1	2.0±0.05	4.0±0.1		4,000 / 3,000 ^{**1}
S	2.0×1.25	0.0±0.3		1.75±0.1					3.000
Α	3.2×1.6								3,000

※1. 251型500規格及びTCB型50規格は3000個/リール

Quantity per reel of Type 251 Specification Number 500 and Type TCB Specification Number 50 is 3000.

定格: 267型Mシリーズ, 267型Eシリーズ, 267型Pシリーズ, 271Nシリーズ 279型Mシリーズ, 281型Mシリーズ, 281型Eシリーズ

Type: 267 M Series, 267 E Series, 267 P Series, 271 N Series

279 M Series, 281 M Series, 281 E Series

21010	279 W Genes, 201 W Genes, 201 L Genes									
ケース記号 Case Code	ケースサイズ Case size	W (mm)	F (mm)	E (mm)	P ₁ (mm)	P ₂ (mm)	P ₀ (mm)	D ₀ (mm)	包装数/リール(個) Quantity/Reel (pcs)	
Case Code	Odse size								φ180	ϕ 330
Α	3.2×1.6	8.0±0.3	3.5±0.05		.1 4.0±0.1				2,000	9,000
В	3.5×2.8	0.0±0.3		1.75±0.1						8,000
C3	6.0×3.2		5.5±0.05			2.0±0.05	4.0±0.1	φ1.5 ^{+0.1} ₀		3,000
D3	7.3×4.4	12.0±0.3	5.7±0.05 5.7±0.1	1.5±0.1	8.0±0.1		4.010.1	Ψ1.5 0	500	2,500
Н	7.3×4.4	12.U±U.3		1.0±0.1						1,500
Е	7.3×5.8		5.5±0.05	1.75±0.05						2,000

定格:267型Nシリーズ、TCA型 Type: 267 N Series, TCA

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ケース記号 Case Code	ケースサイズ Case size		P ₀ (mm)	D_0	包装数/リール(個) Quantity/Reel (pcs)					
Case Code	Odde dize	(111111)	(111111)	(111111)	(111111)	(mm)	(111111)	(mm)	φ180	φ330
Α	3.2×1.6	8.0±0.3	3 3.5±0.05		4.0±0.1				2,000	9,000
В	3.5×2.8		6.0±0.3 3.5±	1.7	1.75±0.1	.75±0.1	2.0±0.05	4.0±0.1	φ1.5 ^{+0.1} 0	2,000
С	6.0×3.2	12.0±0.3	5.5±0.05	8.0±0.1		0±0.05 4.0±0.1	$\psi_{1.0\pm0.1}$ $\psi_{1.5}$ 0	500	3,000	
D	7.3×4.4		5.7±0.05	1.5±0.1	0.U±U.1				500	2,500

回路保護素子

Circuit Protection Components

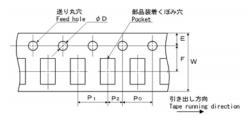
定格:JAE型、JAG型、JAG型Nシリーズ、JAJ型、JAJ型Nシリーズ、JAK型、JAK型Nシリーズ、JHC型、JHC型Nシリーズ KAB型、KAB型Nシリーズ、KAB型Mシリーズ、KAB型Tシリーズ、KVA型、KVA型Nシリーズ

Type: JAE, JAG, JAG N Series, JAJ, JAJ N Series, JAK, JAK N Series, JHC, JHC N Series

KAB, KAB N Series, KAB M Series, KAB T Series, KVA, KVA N Series

ケース記号 Case Code	ケースサイズ Case size	W (mm)	F (mm)	E (mm)	P ₁ (mm)	P ₂ (mm)	P ₀ (mm)	D ₀ (mm)	包装数/リ Quantity/F		
Case Code	Case size	(111111)	(111111)	(111111)	(111111)	(111111)	(111111)	(111111)	φ180	φ330	
29	1.6×0.8			1.75±0.05				φ 1.55±0.03	5.000	-	
31	2.0×1.25	8.0±0.3	3.5±0.05	1.73±0.03	4.0±0.1	4.0±0.1			ψ 1.33±0.03	3,000	
52	3.2×1.6					2.0±0.05	4.0±0.1	φ1.5±0.1	2,000	-	
44E	7.3×5.8	12±0.3	5.5±005	1.75±0.1	8.0±0.1			φ1.5 ^{+0.1} ₀	500	1,500	
59F	11.0×7.3	24±0.3	11.5±005		12.0±0.1			ψ 1.5 $_{0}$	-	500	





リール寸法/Reel dimensions

単位[mm] unit[mm] φ13 ±0.2 φ180又はφ330 (φ180 or φ330) ±0.8

チップタンタルコンデンサ テーピング形状記号

Chip Tantalum Capacitors Tape code									
φ180リール φ180Reel	φ3301/-1/ φ330Reel	極性 Anode notation							
L		送り穴側 + Feed hole +							
R		送り穴側 - Feed hole -							