

SPECIFICATION SHEET

SPECIFICATION SHEET NO.	P1116- HBW336M063HFKT
DATE	Nov.16, 2022
REVISION	A0
DESCRIPITION	Conductive Polymer Hybrid Aluminum Electrolytic Capacitors HBW series, Capacitance: 33μF, Tolerance ±20%, Voltage 63V, 2 pads Case size: ØD8.00*L10.2mm, Ripple Current 1100mA Max.@+125°C, 100KHz, Lifetime 4000Hours @125°C, Operating Temp. Range -55°C ~+125°C, Leakage Current :(at 20°C after 2 minutes): 20.8μA, ESR @125°C,100KHz: 40mohm Max. RoHS/RoHS III Compliant & Halogen Free, Package in Tape/Reel,
CUSTOMER	
CUSTOMER PART NUMBER	
CROSS REF. PART NUMBER	
ORIGINAL PART NUMBER	Aillen CXE336M1JHBWF10TR
PART CODE	HBW336M063HFKT

VENDOR APPROVE

Issued/Checked/Approved







DATE: Nov.16, 2022

USTOMER APPROVE	
ATE:	
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CONDUCTIVE POLYMER HYBRID ALUMINUM ELEC. CAPACITORS HBW SERIES

MAIN FEATURE







- Conductive Polymer Hybrid Aluminum Electrolytic Capacitors
- High Stability And Reliability, Low ESR, High Ripple Current
- Long Life 4000 Hours @ 125°C
- Quality and standard Meets IEC 60384-4 and AEC-Q200-REV D
- Applicable To Automatic Mounting Machine
- Cross Competitors PARTS GYA, HZC, ZC And HXC Series And More.
- RoHS III Complaint And Halogen Free

APPLICATION

· For Applications Automotive and more

PART CODE GUIDE



HBW	336	М	063	н	F	К	Т
1	2	3	4	5	6	7	8

- 1) HBW: Conductive Polymer Hybrid Aluminum Electrolytic Capacitors HBW series, 2 Pads
- 2) **336**: Rated Capacitance Code, 105: 1.0μF; 225: 2.2μF; 335: 3.3μF; 475: 4.7μF; 106: 10μF; 226: 22μF; **336: 33μF**; 476: 47μF 107: 100μF; 227: 220μF; 337: 330μF; 477: 470μF
- 3) M: Capacitance tolerance code, M: ±20%; V: -10% ~ ±20%,
- 4) **063:** Rated Voltage Code, 016:16V; 025: 25V; 035: 35V; 050: 50V; **063: 63V**; 080: 80V
- 5) H: Environmental Requirements code, R: RoHS Complaint; H: RoHS III Complaint & Halogen Free
- 6) F: Aluminum Case size code, B: ØD3.0mm; C: ØD4.0mm; D: ØD5.0mm; E: ØD6.3mm; F: ØD8.0mm; G: ØD10.0mm; P: ØD12.5mm
- 7) K: Aluminum case Heigh code, H: L5.4mm; I: L6.5mm; J: L7.7mm; K: L10.2mm; L: L11.5mm; M: L12.5mm; N: L13.5mm
- 8) T: Package in Tape/Reel, 500pcs/Reel



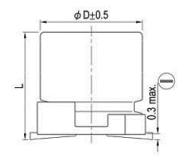
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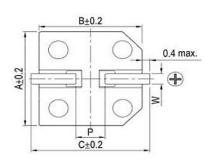
Image For Reference



HBW Series Case ØD8.0*L10.2mm
Explosion Proof Value

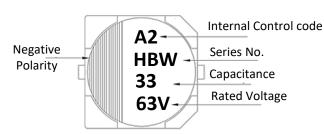




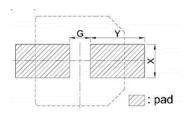


Symbol	Dimension (mm)
Α	8.3
В	8.3
D	Ø8.0
С	9.0
L	10.2 +/- 0.5
р	3.1 +/-0.20
w	0.70~1.1

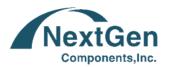
Marking



Recommended Pad Layout

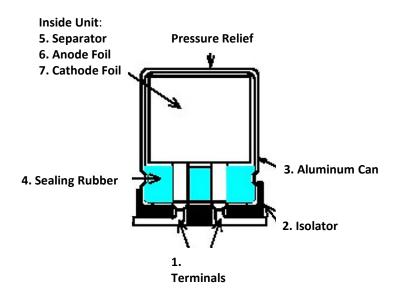


Symbol	Dimension
G	3.0
х	2.5
Υ	3.5



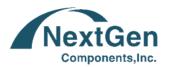
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CONSTRUCTION



No.	Parts	Material
1	Terminal	High pure aluminum, lead is tin copper clad steel wire
2	Isolator	Thermo-plastic resin
3	Aluminum Can	High purity aluminum, coated aluminum can
4	Sealing Rubber	Rubber
5	Separator	Manila hemp
6	Anode Foil	High pure aluminum formation foil
7	Cathode Foil	High pure aluminum carbon foil

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CHARACTERISTICS

Standard Atmospheric Conditions

The standard range of atmospheric conditions for making measurements/test as follows:

Ambient temperature: 15°C to 35°C

Relative humidity: 45% to 75%; Air Pressure: 86kPa to 106kPa

If there is any doubt about the results, measurement shall be made within the following conditions:

Ambient temperature: 20°C ± 2°C

Relative humidity: 60% to 70% Air Pressure: 86kPa to 106kPa

As to the detailed information, please refer to following Table

Operating Temperature Range

The ambient temperature range at which the capacitor can be operated continuously at rated voltage (16~80V) is -55°C to 125°C.

As to the detailed information, please refer to table 1

SPECIFICATION

No.	Characteristics	Spec	Unit	Description				
1	Capacitance	33	μF	Product nom	inal canacit	v test frequ	ency: 120Hz,2	0°C
2	Capacitance Tolerance	±20	%	within the sp				.00
3	Working voltage	63	V	Rated working	ng voltage			
4	Dissipation Factor	8	%	Also calls dis	ssipation, te	st frequency	7: 120Hz	
5	Max ESR	40	mΩ	Equivalent se	eries resista	nce, test free	quency 100kH	Z
6	Max rated ripple	1100	mA rms	largest A.C c The DC volta rated voltage	urrent age plus the	peak AC vo	ent is 100kHz oltage must no ing 10kHz≤f<	
				Frequency	f<1kHz	<10kHz	100kHz	00kHz
				Coefficient	0.10	0.30	0.60	1.00
7	Leakage Current	20.8	μА	Leakage curre			2 minutes, test °C)	the
8	Temperature range	-55~125	°C	7				
9	Temperature Characteristics	At -25°C 100k temperature)	Hz (Low	Z _{-25°C} /Z _{20°C} ≤1	1.5			
y	Characteristics, Impedance Ratio	At -55°C 100k temperature)	Hz (High	Z-55°C/Z20°C≤2	2.0			

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Table 2

	Item	PERFORMANCE
4.1	Nominal capacitance (Tolerance)	Condition> Measuring Frequency : 120Hz±12Hz Measuring Voltage : Not more than 0.5V Measuring Temperature : 20±2°C Criteria> Shall be within the specified capacitance tolerance.
4.2	Leakage Current	After 2 minutes applications of rated working voltage at 20°C the rated working voltage shall be applied across the capacitor and its protective resistor which shall be 1000±100Ω. Charge Charge Charge Charge Charge Remark:Refer to item 5
4.3	Tan δ	Condition
4.4	ESR Ripple Current	ESR :Equivalent series resistance, test frequency 100kHz Ripple Current: The maximum allowable ripple current is 100kHz, the largest A.C current The DC voltage plus the peak AC voltage must not exceed the rated voltage,and non-revers charging



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		<condition< th=""><th>n></th><th></th><th></th><th>10%</th><th></th><th></th><th></th></condition<>	n>			10%			
			Step	Test in emperatu		Time	(Min)		
			1	20±2		-			
			2	-25(-55)±3	30			
			3	20±2		10~15			
			4	125±2	2	30			
			5	20±2	Ų.	10~15			
4.5	Characteristics at High and Low Temperature	1/20	Impedance Ra		g				
	1.550	WV(V		16	25	35	50	63	80
		The second secon	℃/Z(20℃)	1.5	1.5	1.5	1.5	1.5	1.5
		2(-55	℃/Z(20℃)	2.0	2.0	2.0	2.0	2.0	2.0
		(2) Step 4	¥						
			Leakage curr	ent	Not	more than	800% of t	he specifie	d value
			Capacitance	Change	With	nin ±10%	of Stepl v	alue.	
			tan δ		Not	more than	the specif	ied value.	
		1 1	tan δ Appearance		Not more than the specified value. There shall be no leakage of electrolyte.				
		<condition< th=""><th>n></th><th>is the DC</th><th>-: 50</th><th></th><th></th><th></th><th>***************************************</th></condition<>	n>	is the DC	-: 50				***************************************
		Capac	n> citor is placed ow)2 twice to	endurance	B by sold	ler paste a er of 1.8k	nd do high g for 60S,n	temperatur o dropping	re test
4.6	Terminal Strength	Capac (Refle	n> citor is placed ow)2 twice to	endurance	B by sold	ler paste a er of 1.8k	nd do high	temperatur o dropping	re test
4.6	Terminal Strength	Capac (Refle	n> citor is placed ow)2 twice to	endurance ent	B by sold e the pow	ler paste ar er of 1.8kg more than	nd do high g for 60S,n	temperatur o dropping ied value.	re test
4.6	(C. 2001 S. 2001 C. 2000)	Capac (Refle	n> citor is placed ow)2 twice to Leakage curr	endurance ent	B by sold e the pow	der paste ar er of 1.8kg more than nin ±10%	nd do high g for 60S,n	temperatur o dropping ied value. alue.	re test
4.6	(C. 2001 S. 2001 C. 2000)	Capac (Refle	n> citor is placed ow)2 twice to Leakage curr Capacitance	endurance ent	B by sold e the pow Not With	der paste an er of 1.8kg more than nin ±10% more than	nd do high g for 60S,n the specif of initial v	temperatur o dropping ied value. alue.	e test condition.
4.6	(C. 2001 S. 2001 C. 2000)	Capac (Refle	n> citor is placed ow)2 twice to Leakage curr Capacitance (endurance ent	B by sold e the pow Not With	der paste an er of 1.8kg more than nin ±10% more than	nd do high g for 60S,n the specif of initial v	temperatur o dropping ied value. alue. ied value.	e test condition.
4.6	(C. 2001 S. 2001 C. 2000)	Capac (Refle	n> citor is placed ow)2 twice to Leakage curr Capacitance tan ô Appearance acitor is place ording to the t	endurance ent Change	B by sold e the power Not With Not The	more than the shall be ixed .Setti	nd do high g for 60S,n the specif of initial v the specif no leakage	temperatur to dropping tied value. alue. tied value. e of electro	e test condition.
No.	Strength	Capac (Refle	n> citor is placed ow)2 twice to Leakage curr Capacitance tan ô Appearance acitor is place ording to the t	endurance ent Change ed in the Pest conditi	B by sold the pow Not With Not The CB and fi	more than more than more than re shall be ixed .Setti to 6 times f	nd do high g for 60S,n the specif of initial v the specif no leakage	temperatur to dropping ied value. alue. ied value. e of electro	e test condition.
No.	Strength	Capac (Refle	Leakage curr Capacitance tan δ Appearance acitor is place	endurance ent Change ed in the Pest conditi	B by sold the power Not With Not Ther CB and from shock Not	more than in ±10% more than re shall be ixed .Setti x 6 times f	the specifino leakage	temperatur o dropping ied value. ied value. e of electro eleration (16 directions (16 directions (16)	e test condition.
No.	Strength	Capac (Refle	n> citor is placed ow)2 twice to Leakage curr Capacitance tan δ Appearance acitor is place ording to the t	endurance ent Change ed in the Pest conditi	B by sold the power Not With Not There CB and frigon shock Not With	more than the shall be tixed . Setting the following than the shall be tixed . Setting the following than the shall be the	the specifino leakage	temperatur to dropping ied value. alue. ied value. e of electro eleration (1) directions (1) ied value.	e test condition.
4.6	Strength	Capac (Refle	n> citor is placed ow)2 twice to Leakage curr Capacitance tan δ Appearance acitor is place ording to the t Leakage curr Capacitance	endurance ent Change ed in the Pest conditi	B by solde the power Not With Not There CB and from shock Not With Not Not With Not	more than in ±10% more than re shall be ixed .Setti x 6 times f more than in ±10% more than	the specifino leakage	temperatur o dropping ied value. ied value. e of electro eleration (16 directions	e test condition.



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		4000 +72/-0hrs at 1 2. Then the capacitor	placed in oven with application of rated ripple current for 25°C. shall be subjected to standard atmospheric conditions for 4 measurements shall be made.
4.8	Load Life test	<criteria> The characteristic sha</criteria>	Il meet the following requirements.
		Leakage current	Not more than the specified value.
		Capacitance Char	within ±30% of initial value.
		tan δ	Not more than 200% of the specified value.
		ESR	within ±200% of the initial value
		Appearance	There shall be no leakage of electrolyte.
		<pre></pre>	
4.9	Shelf Life test	<criteria> The characteristic shall r Leakage current</criteria>	neet the following requirements. Not more than the specified value.
4.9	100000000000000000000000000000000000000	<criteria> The characteristic shall r Leakage current Capacitance Change</criteria>	Not more than the specified value. Within ±30% of initial value.
4.9	100000000000000000000000000000000000000	<criteria> The characteristic shall n Leakage current Capacitance Change tan δ</criteria>	neet the following requirements. Not more than the specified value. Within ±30% of initial value. Not more than 200% of the specified value.
4.9	100000000000000000000000000000000000000	<criteria> The characteristic shall r Leakage current Capacitance Change</criteria>	Not more than the specified value. Within ±30% of initial value.
4.9	100000000000000000000000000000000000000	Criteria> The characteristic shall π Leakage current Capacitance Change tan δ ESR Appearance Condition> Step 1:Put the capacit	neet the following requirements. Not more than the specified value. Within ±30% of initial value. Not more than 200% of the specified value. within ±200% of the initial value There shall be no leakage of electrolyte. or into IPA(25±5°C); se is 3+0.5/-0 minutes; citor for 10 times;



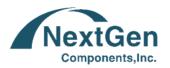
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		α 1ΚΩ	acitor shall b each consisti of approxima	ng of a c	harge p	period of				
	Same Makes	Lea	akage current		N	ot more t	han the s	pecified v	value.	
	Surge Voltage test	Ca	pacitance Cha	ange	W	ithin ±20	% of in	itial value		
4.11	\$102555	tan	δ		N	ot more t	han the s	specified v	value.	
		ES	R		w	ithin ±20	0%of the	e initial va	lue	
			voltage:	16	25	35	50	63	80	
			V (V.DC)	18.4	28.8	40.3	57.5	72.5	92	
	Vibration		pacitance Cha					al value.	110	
4.12	test	tan			-			cified val		
		ES	-		-					
			Inner construction			Not more than the specified value. No intermittent contacts, open or short circuiting. No damage of tab terminals or electrodes.				rcuiting. No
		Ap	pearance		No mechanical damage in terminal. No leakage electrolyte or swelling of the case. The marking be legible.					
	Un-biased	85±3°C hours, a		e capacite easureme	or shall ents <mark>s</mark> ha	be subje ill be ma	cted to st de.		mospheric	5%±5% R.H. conditions for
4.13	Humidity		ance Change	_		±30% of				
		tanδ			Not mo	re than 2	00% of t	he specifi	ed value	
		ESR				The Company of the Company	- 14 to 14 to 14 to 15	he specifi	1014 I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		Appear			2200 100	territori (m. 16		e of electr	CHILDANGE.	



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		<condition></condition>	
			he PCB and pressed to deviate from Original fulcrum less
		than 2mm for 60 (+5)	s.
			Pressure rod
			R230
			Board
		(·•
4.14	Board Flex Test	R5 45±2	45±2
		<criteria> Leakage current</criteria>	Not more than the specified value.
			Within ±10% of initial value.
		Capacitance Change tan δ	111111111111111111111111111111111111111
		ESR	Not more than the specified value.
		Appearance	Not more than the specified value. There shall be no leakage of electrolyte.
	1		
			d working voltage for 2000 +48/-0 hrs in an atmosphere of C. And then the capacitor shall be subjected to standard
	DiI	Capacitors shall be rate 85%±5% R.H. at 85±3° atmospheric conditions	d working voltage for 2000 +48/-0 hrs in an atmosphere of C. And then the capacitor shall be subjected to standard for 4 hours, after which measurements shall be made.
4.15	Biased Humidity	Capacitors shall be rate 85%±5% R.H. at 85±3° atmospheric conditions	C. And then the capacitor shall be subjected to standard for 4 hours, after which measurements shall be made.
4.15		Capacitors shall be rate 85%±5% R.H. at 85±3° atmospheric conditions <criteria> Leakage current</criteria>	C. And then the capacitor shall be subjected to standard
4.15	Humidity	Capacitors shall be rate 85%±5% R.H. at 85±3° atmospheric conditions	C. And then the capacitor shall be subjected to standard for 4 hours, after which measurements shall be made. Not more than the specified value. Within ±30% of initial value.
4.15	Humidity	Capacitors shall be rate 85%±5% R.H. at 85±3° atmospheric conditions <criteria> Leakage current Capacitance Change</criteria>	C. And then the capacitor shall be subjected to standard for 4 hours, after which measurements shall be made. Not more than the specified value.
4.15	Humidity	Capacitors shall be rate 85%±5% R.H. at 85±3° atmospheric conditions <criteria> Leakage current Capacitance Change tan δ</criteria>	C. And then the capacitor shall be subjected to standard for 4 hours, after which measurements shall be made. Not more than the specified value. Within ±30% of initial value. Not more than 200% of the specified value. Not more than 200% of the specified value.
4.15	Humidity	Capacitors shall be rate 85%±5% R.H. at 85±3° atmospheric conditions <criteria> Leakage current Capacitance Change tan ô ESR</criteria>	C. And then the capacitor shall be subjected to standard for 4 hours, after which measurements shall be made. Not more than the specified value. Within ±30% of initial value. Not more than 200% of the specified value.
4.15	Humidity	Capacitors shall be rate 85%±5% R.H. at 85±3° atmospheric conditions <criteria> Leakage current Capacitance Change tan δ ESR Appearance</criteria>	C. And then the capacitor shall be subjected to standard for 4 hours, after which measurements shall be made. Not more than the specified value. Within ±30% of initial value. Not more than 200% of the specified value. Not more than 200% of the specified value.
4.15	Humidity	Capacitors shall be rate 85%±5% R.H. at 85±3° atmospheric conditions <criteria> Leakage current Capacitance Change tan δ ESR Appearance <condition> Whether there is abnorm</condition></criteria>	C. And then the capacitor shall be subjected to standard for 4 hours, after which measurements shall be made. Not more than the specified value. Within ±30% of initial value. Not more than 200% of the specified value. Not more than 200% of the specified value.
	Humidity test	Capacitors shall be rate 85%±5% R.H. at 85±3° atmospheric conditions <criteria> Leakage current Capacitance Change tan δ ESR Appearance <condition> Whether there is abnorm the ensurance temperature</condition></criteria>	C. And then the capacitor shall be subjected to standard for 4 hours, after which measurements shall be made. Not more than the specified value. Within ±30% of initial value. Not more than 200% of the specified value. Not more than 200% of the specified value. There shall be no leakage of electrolyte. ality about electrical characterization in the test that under re(the lowest ,the highest, atmospheric temperature).



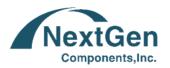
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Rotational Temperature test	<criteria> Leakage current</criteria>	1							
- The College	Leakage current		The state of the s						
		Not more than the specified value.							
	Capacitance Change	Within ±20% of initial value.							
	tan δ	Not more than 200% of the	Not more than 200% of the specified value.						
	ESR	Not more than 200% of	Not more than 200% of the specified value.						
	Appearance	There shall be no leakag	There shall be no leakage of electrolyte.						
Resistance to Soldering Heat test	Preheat Duration Highest temperatures The number of a Please contact Please ensure to room temperatures Consult with uses	our representative if your condi- hat the capacitor became cold e- ture (5°C~35°C) before the secondary s when performing reflow profit meet the following requirement.	enough to the ond reflow. ide in IPC / JE at, specified valu	7 230 0 40 260 5 1 DEC (J-STD-020)					
	Soldering Heat	Resistance to Soldering Heat test Preheat Duration Highest temperatures The number of a Please contact Please ensure t room temperati Consult with us <criteria> The characteristic shall Leakage current</criteria>	Resistance to Soldering Heat test Resistance to Freheat Preheat Temperature(T ₁ ~T ₂ °C) Time(t ₁) Max. s Duration Temperature(T ₃ °C) Time(t ₂) Max. s Highest Temperature(T ₄ °C) Temperature(T ₄ °C) Temperature(T ₄ °C) Temperature(T ₃ °C) Time(t ₂) Max. s The number of reflow Please contact our representative if your condi Please ensure that the capacitor became cold e room temperature (5°C~35°C) before the second consult with us when performing reflow profits Criteria> The characteristic shall meet the following requirement Leakage current Not more than the	Resistance to Soldering Heat test Resistance to Temperature(T ₁ ~T ₂ °C) 150- Time(t ₁) Max. s 12 Duration Temperature(T ₃ °C) 200 21 Time(t ₂) Max. s 70 5 Highest Temperature(T ₄ °C) 250 temperatures Time(t ₃) Max. s 5 The number of reflow 2 Please contact our representative if your condition is higher Please ensure that the capacitor became cold enough to the room temperature (5°C~35°C) before the second reflow. * Consult with us when performing reflow profile in IPC / JE **Criteria>** The characteristic shall meet the following requirement. Leakage current Not more than the specified value.					



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		<condition></condition>		
4.19	Venting Test	1. Applicable to the capacitors with case size is 10φ mm and larger. 2. Test condition: DC test: Applying inverse DC rated voltage with current to the capacitor. Where case diameter: φD ≤ 22.4mm: 1 A DC max φD > 22.4mm: 10 A DC max <criteria> (1) When the pressure relief vent operated, the capacitor shall avoid any danger of fire or explosion of capacitor element(terminal and metal foil etc.) or cover. (2) When the pressure relief device does not open with the voltage applied over 30 minutes, the test is considered to be passed.</criteria>		
4.20	Solderability Test	<condition> Solderability test 1: Pre-conditioning: execution according to RDD0302 (SolderabilityTest Method), item 4.4.2-1 (chart 3) Solder bath temperature: 235±5°C Duration:5+0/-0.5s Solderability test 2: Pre-conditioning: execution according to RDD0302 (Solderability Test Methode), item 4.4.2-1 (chart 3) Solder bath temperature: 215±3°C Duration: 5+0/-0.5s Solderability test 3: Pre-conditioning: execution according to RDD0302 (Solderability Test Methode), item 4.4.2-1 (chart 3) Solder bath temperature:260±5°C Duration:7±0.5s Criteria> Coating quality A minimum of 95% of the surface being immersed</condition>		
4.21	Coating Case	The color of coating case will turn light khaki from colorless with long duration in high temperature. Should there is any concern with the color changing of coating case, please consult with us		



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CASE SIZE & MAX RIPPLE CURRENT

Rated Voltage V	Capacitance (+/-20%) μF	Case Size ØD*L mm	Dissipation Factor @+20°C, 120Hz Tanδ Max.	Ripple Current @+125°C, 100KHz mA rms.	ESR (mΩ,20°C, 100kHz)	Leakage Current (μΑ/2min) μΑ Max.
63	33	8.0*10.2	0.08	1100	40	20.8

Remark:

- 1) Specification are subject to change without notice should a safety or technical concern arise regarding the product please be sure to contact our sales offices;
- 2)The sizes in the above table are all general specifications. If you need other specifications, please contact us.
- 3) Frequency Coefficient of Allowable Ripple Current:

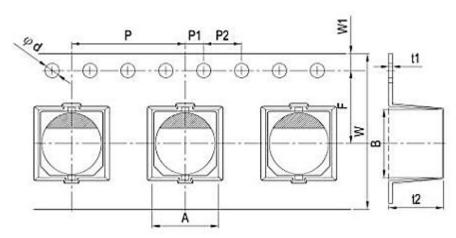
Frequency	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f<500kHz
Coefficient	0.10	0.30	0.70	1.00



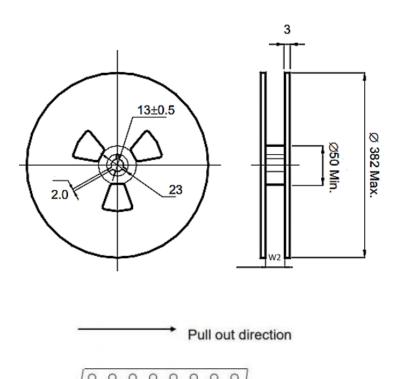
CONDUCTIVE POLYMER HYBRID ALUMINUM ELEC. CAPACITORS HBW SERIES

TAPE (Unit: mm), 500pcs/Reel,

Applicable standard JIS C0806 and IEC 60286.



REEL (Unit: mm)



Case size: ØD8.0*L10.2mm		
Symbol	Dimension (mm)	
W	24.0	
Р	16.0	
F	11.5	
А	8.7	
В	8.7	
T 2	11.0	
Ø d	1.5	
P 1	2.0	
P 2	4.0	
t 1	0.4	
W 1	1.75	
W 2	26.0 +/-0.3	



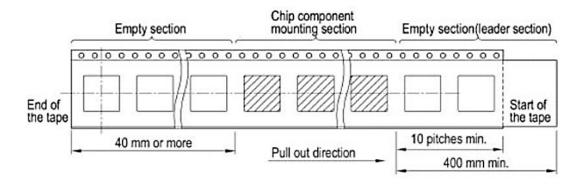
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PACKING METHOD

Polarity: Anode on the opposite side of the feed hole

The leader length of the tape shall not be less than 400mm including 10 or more embossed sections in which no parts are contained.

The winding core is provided with an over 40mm long empty section



AEC-Q200 COMPLIANCE

Automotive Electronics Counsel (AEC) has established various electronic component qualification/reliability standards in order to serve automotive electronics industry. AEC-Q200 standard is dedicated for passive components like capacitors, inductors, etc. and is widely adopted domestically as well as internationally. NextGen/Aillen offers compliant product designs and support services to satisfy customers' product requirements, including the AEC-Q200 required criteria of the reliability tests. NextGen/Aillen 's capacitors are professionally designed to outperform all requirements of AEC-Q200.

DISCLAIMER

NextGen Component, Inc. reserves the right to make changes to the product(s) and or information contained herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of any such product(s) or information

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