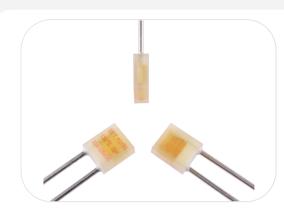


PD Series



Description

The Direct Current Thermal-Link Alloy Type (DC-ATCO) is defined as a non-resettable protective device functioning one time only. It is widely used in electrical equipment. ATCO is mainly consist of fusible alloy, flux resin, case, sealant and lead wires. Normally, fusible alloy is jointed to the two lead wires. Under abnormal conditions, when the temp, reaches to the fusing temp, of ATCO, the fusible alloy melts and quickly retracts to the two lead wire ends with the aid of the flux resin and disconnects the circuit completely.

SETsafe | SETfuse Direct Current Thermal-Link Alloy Type (DC-ATCO) PD series Rated Functioning Temp. from 102 °C to 150 °C, Rated Current: 20 A, complies with RoHS and REACH.

Applications

- Surge Protective Devices
- Switched-Mode Power Supplies
- Batteries

Customization

- Other Temp.
- The Length of Lead Wires
- Leads Forming Types

Structure Diagrams

High Accuracy of Functioning

RoHS & REACH Compliant

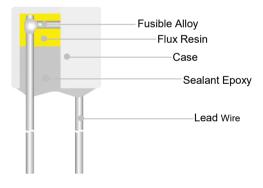
Radial

Features

Temp.

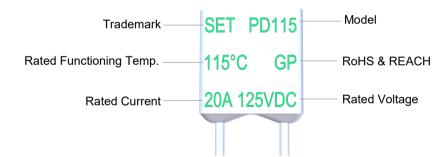
Non-Resettable

High Surge Capacity



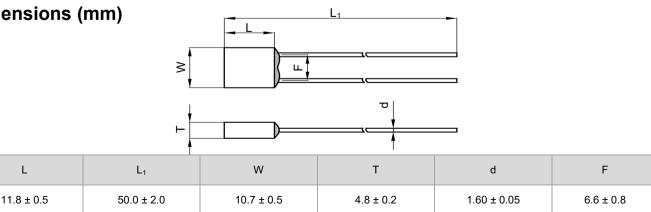
Marking

Radial (Color for reference only)



Remark: The Date Code means Year and quarter: A stands for 2000, B stands for 2001 and 01 stands for the first quarter, 02 stands for the second quarter, and so on.

Dimensions (mm)



SET safe | SET fuse

PD Series

Specifications

(<i>T</i> _f) °C		Model	Fusing Temp. (°C)	7 _h (°C)	7 _m (°C)	۱٫ (A)	U _r (V)	RoHS REACH
	150	PD150	145 ± 2	117	160	20	DC 125	•
ng Te	136	PD136	131 ± 2	102	160	20	DC 125	•
Functioning Temp.	130	PD130	125 ± 2	97	160	20	DC 125	•
Func	125	PD125	121 ± 2	90	160	20	DC 125	•
Rated	115	PD115	111 ± 2	82	160	20	DC 125	•
Ř	102	PD102	98 ± 2	66	160	20	DC 125	•

Note:

1: "●"Means certificated, "○"Means non-certificated.

2: RoHS & REACH Compliant .

Soldering

Hand-Soldering

- 1. Soldering should be carried out according to Table T-1.
- 2. The thermal element of ATCO is fusible alloy with low melting point, which is jointed with ATCO lead wires. Improper soldering operation (too high soldering temp., too long soldering time, too short lead wire etc.) may transfer more heat to the thermal element and ATCO may open in advance.
- 3. When soldering conditions are more severe than those listed in Table T-1, a heat sink fixture should be used between soldering point and ATCO body.
- 4. When soldering, please do not pull / push or twist ATCO body or lead wires.
- 5. After soldering, let it naturally cool for longer than 20 seconds. During cooling, never move the ATCO body or lead wires.

TABLE T-1 Hand-Soldering Time

Rated Functioning Temp.		Max. Allowable Soldering Time for Different Lead Wire Length (Fig.T-1)												
(<i>T</i> _f)	L _s Length	•		L _s Time		-3		Time		Temp.				
	Length	Tinned Copper Wire	CP Wire	Length	Tinned Copper Wire	CP Wire	Length	Tinned Copper Wire	CP Wire					
(°C)	(mm)	(s)	(s)	(mm)	(s)	(s)	(mm)	(s)	(s)	(°C)				
102 to 115	10	1 ^a	4	20	2	5	30	3	6					
116 to 135	10	1 ^a	4	20	3	6	30	5	8	400				
136 to 150	10	3	6	20	5	8	30	5	8					

3

Note:

a: Auxiliary Heat Sink Fixture is Required to Avoid ATCO Cutting off Unexpectedly.

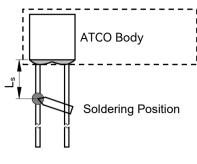


FIGURE T-1

SET safe SET fuse

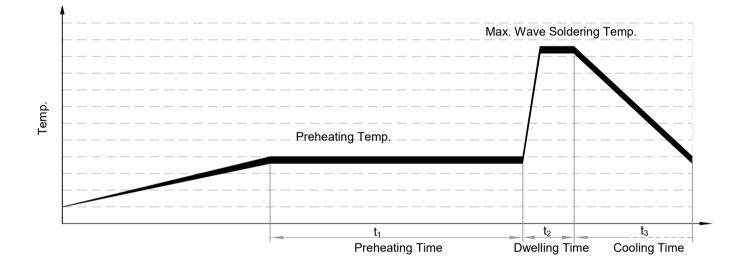
SET safe SET fuse

Wave Soldering

The wave soldering parameters as Table T-2, for reference only, when ATCO is for practice use, you need to do some validation experiments. For example, using X-RAY to see the fusible alloy of ATCO whether damage after wave soldering.

TABLE T-2 Wave Soldering Parameters Setting

Rated Functioning Temp.	Whe	Max. Allowal en the Length		ng Temp. re is Different	Preheating Time (t ₁)	Max. Wave Soldering	Dwelling Time (t ₂)	Cooling Time (t ₃)		
(<i>T</i> _f)	L _s Length	Preheating Temp.	L _s Length	Preheating Temp.		Temp.				
(°C)	(mm)	(°C)	(mm)	(°C)	(s)	(°C)	(s)	(s)		
102 to 130	建议手工焊接									
131 to 150	20	80	30	90	< 60	≤ 260	≤ 3	≤ 10		

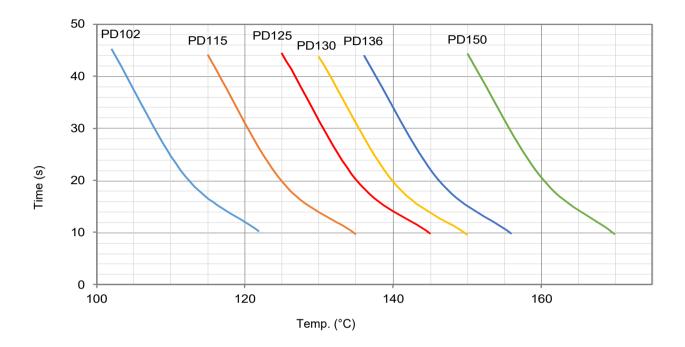


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PD Series

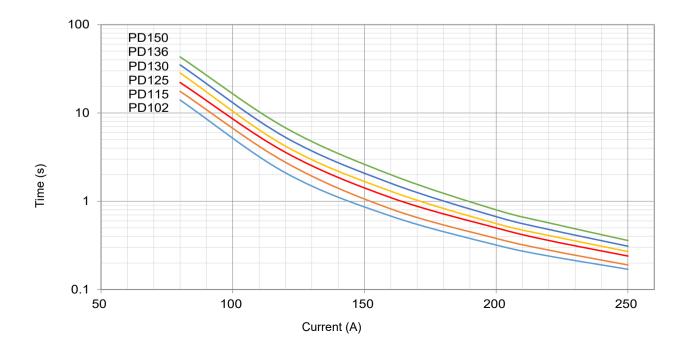
Product Temp.-Time Curve (Reference)

The Temp.-Time Curve of Thermal-Link in different temp. oil bath.



Product Current-Time Curve (Reference)

The Current-Time Curve shows functioning time at multi-times rated current at room temperature 25 ± 2 °C.



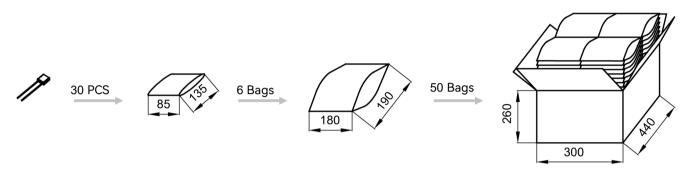


PD Series

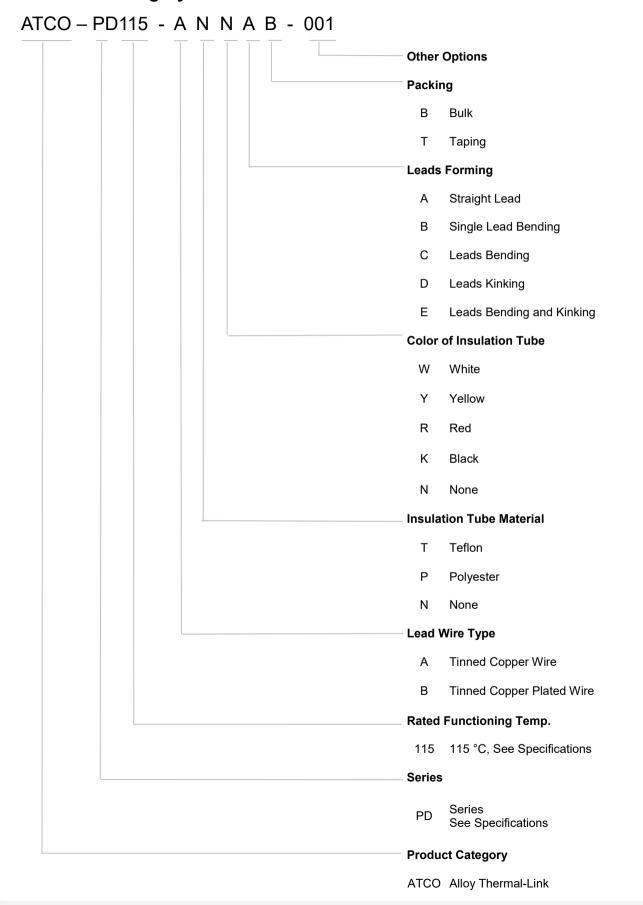
Packaging Information

Bulk

Item	PE Bag	PE Bag	Carton
Dimensions (mm)	135 × 85	190 × 180	440 × 300 × 260
Quantity (PCS)	30	180	9000
Gross Weight (kg)	23.0 ± 10%		



Part Numbering System



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PD Series

SET safe | SET fuse

PD <u>Series</u>

Glossary

Item	Description
тсо	Thermal-Link A non-resettable device incorporating a THERMAL ELEMENT which will open a circuit once only when exposed for a sufficient length of time to a temperature in excess of that for which it has been designed. — (GB 9816.1)
АТСО	Alloy Thermal-Link Alloy Type Thermal-Link, Alloy is the thermal element. — (GB 9816.1)
Tr	Rated Functioning Temp. The temperature of the Alloy Thermal-Link which causes it to change the state of conductivity with a detection current up to 10 mA as the only load.
	— (GB 9816.1) Tolerance: $T_{\rm f}$ °C (GB 9816.1, EN 60691, K60691). Tolerance: $T_{\rm f} \pm 7$ °C (J60691).
Fusing Temp.	Fusing Temp. The temperature of the Alloy Thermal-Link which causes it to change its state of conductivity is measured with silicone oil bath in which the temperature is increased at the rate of 0.5 °C to 1 °C / minute, with a detection current up to 10 mA as the only load. — (GB 9816.1)
T _h	Holding Temp. The Maximum temperature at which a Alloy Thermal-Link will not change its state of conductivity when conducting rated current for 168 hours. — (GB 9816.1)
T _m	Maximum Temp. Limit The temperature of the Alloy Thermal-Link stated by the manufacturer, up to which the mechanical and electrical properties of the Alloy Thermal-Link having changed its state of conductivity, will not be impaired for a given time. — (GB 9816.1)
I _r	Rated Current The current used to classify a Alloy Thermal-Link, which is the Maximum current that Alloy Thermal-Link allows to carry and is able to cut off the circuit safely. — (GB 9816.1)
U,	Rated Voltage The voltage used to classify a Alloy Thermal-Link, which is the Maximum voltage that Alloy Thermal-Link allows to carry and is able to cut off the circuit safely. — (GB 9816.1)
In .	Nominal Discharge Current Being able to withstand 15 peak currents of waveform 8/20 µs to test the product's durability of withstanding pulse current.
I _{max}	— (UL 1449) Max. Discharge Current Being able to withstand 1 peak current of waveform 8/20 µs to test max. pulse current that the product can withstand. — (UL 1449)

PD Series



ATTENTION

Usage

- 1. When atmosphere pressure is from 80 kPa to 106 kPa, the related altitude shall be from 2000 meters to 500 meters.
- 2. Operating voltage less than rated voltage of ATCO, operating current less than rated current of ATCO.
- 3. Do not touch the ATCO body or lead wires directly when power is on, to avoid burn or electric shock.

Replace

ATCO is a non-repairable product. For safety sake, it shall be replaced by an equivalent ATCO from the same manufacturer, and mounted in the same way.

Storage

Do not store the ATCO at the high temp., high humidity or corrosive gas environment, avoid influencing the solder-ability of the lead wires, the product shall be used up within 1 year after receiving the goods.

Installation

Make Sure the Temp. of Installation Position.

- 1. It is recommended that a dummy ATCO with inbuilt thermo-couple shall be used to determine the proper temp.
- 2. The terminal product should be tested to ensure that potential abnormal conditions do not cause ambient temp. to exceed the T_m of the ATCO.
- 3. Mount the ATCO at the location where temp. rises evenly.

Installation position of mechanical performance requirements.

- 1. Do not locate the ATCO in a place where severe vibration always occurs.
- 2. Ensure that the lead wire is long enough, and avoid actions such as press, tensile or twist.
- 3. The seal or body of ATCO must not be damaged, burned or over heated.



PD Series

Mechanical Connection

Riveting

- 1. Choose small resistivity riveting material and be riveted.
- 2. A flexible lead or lead with low resistance should be used to rivet the ATCO.
- 3. Contact resistance should be minimal, large contact resistance will lead to higher temp., ATCO Functioning in advance.

Crimping

- 1. Choose small resistivity crimping material and be crimped.
- 2. A flexible lead or lead with low resistance should be used to rivet the ATCO.
- 3. Contact resistance should be minimal, large contact resistance will lead to higher Temp., ATCO Functioning in advance.

Lead Wire Forming

- 1. If lead wire has to be bent, please pay attention to the distance between body and bending point. Refer to Table T-3.
- 2. When bending leads, please use pincher or similar tools to fix the product as shown in Fig.T-2, to avoid damaging the product.
- 3. During forming and mounting, lead wire should not be cut, nicked, bent sharply, to avoid breaking the product.
- 4. Tangential forces on the leads must be avoided (i.e. pushing or pulling on the leads at angle to ATCO body) as such forces may damage the seal of ATCO.

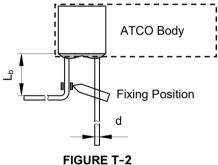


TABLE T-3 Distance between Body and Bending Point

	d	(mm)	< 1.0	1.0 - 1.2	> 1.2
Circular lead	L _b	(mm)	≥ 3	≥5	≥ 10

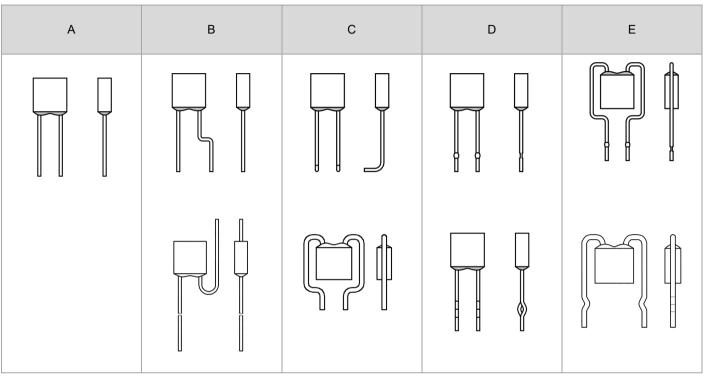
SET safe SET fuse

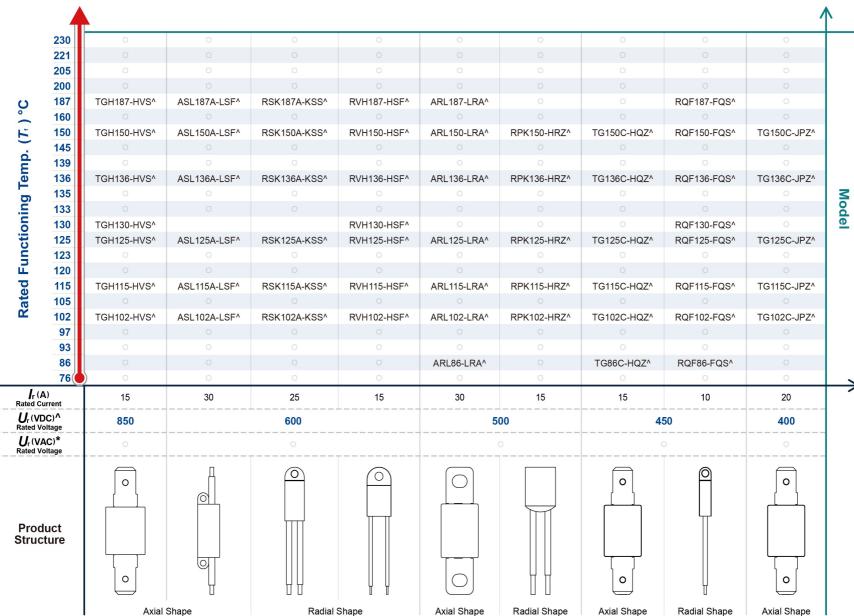
PD Series

Leads Forming Types

The below leads forming is for reference, more leads forming can be customized.

Radial



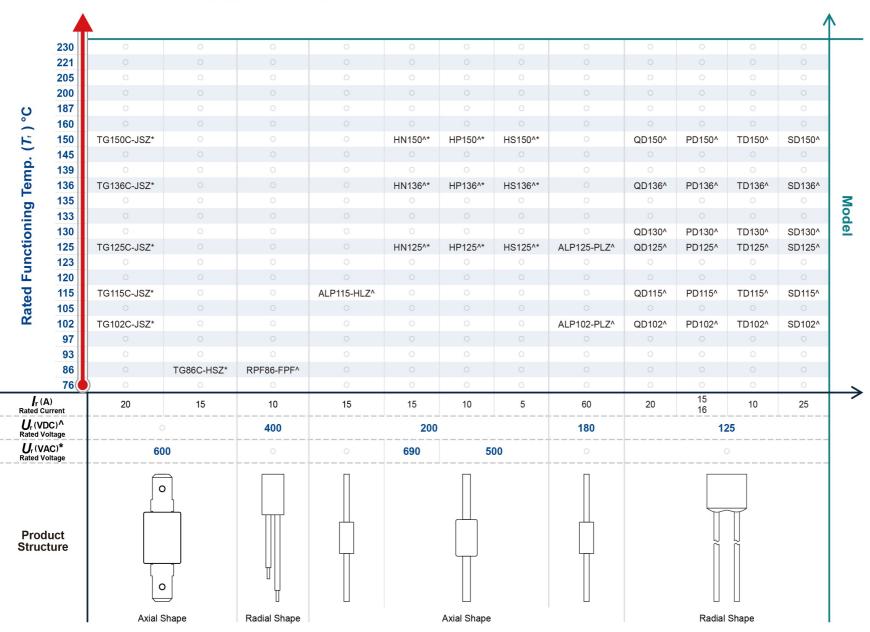


Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

Direct Current Thermal-Link (Alloy Type) Õ ATC Ô

ETsafe **PD** Series

SET fuse



DC

ATC

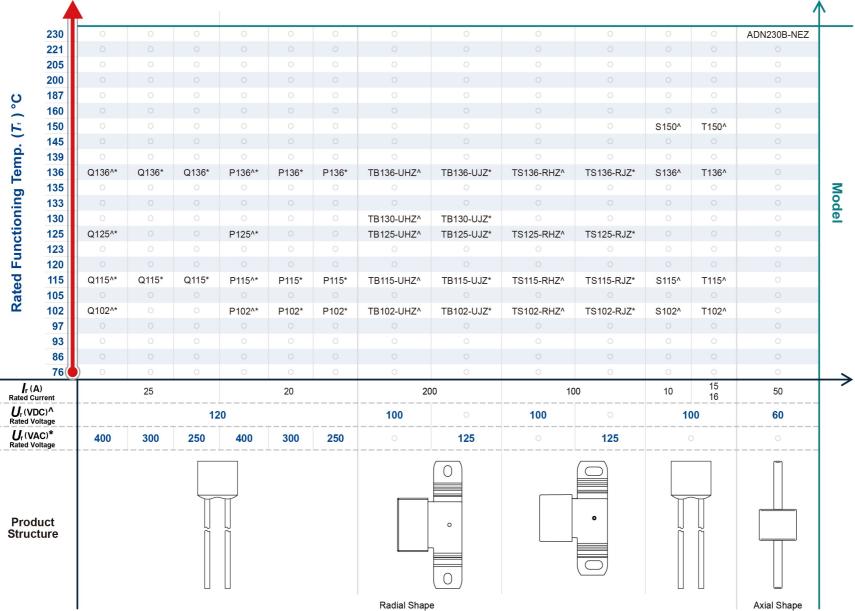
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ETsafe

SET fuse

PD Series

Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview



Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

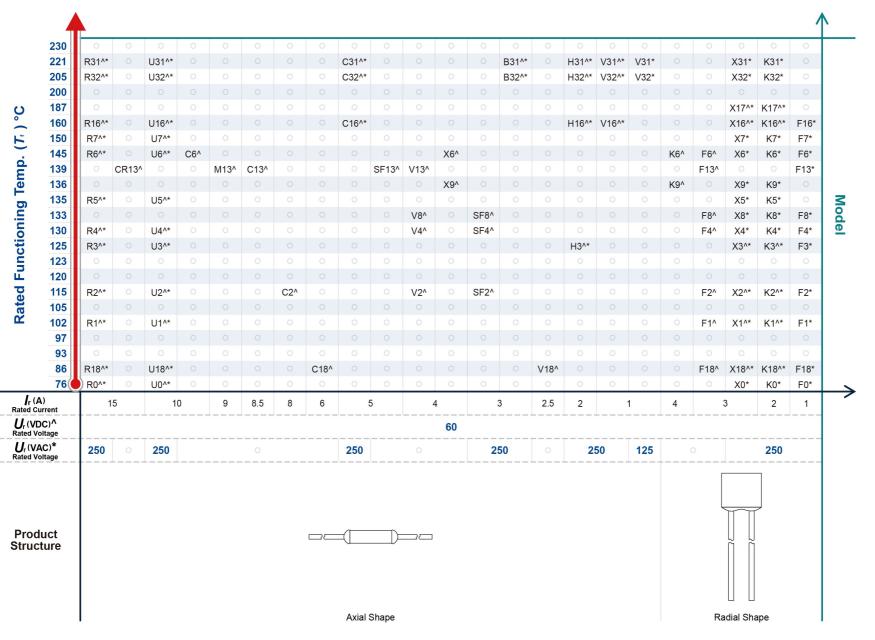
Direct Current Thermal-Link (Alloy Type)

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ATCO

ET safe SET fuse

PD Series



DC

ATC

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ET safe SET fuse

PD Series

Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

															/	۸.
230	0	0	0	0	0	0	0	0	0	0	0	ADN230B-NDZ^	ADN230B-PDZ^	0	ADN230B-QBZ^	-
	XG31*	KG31*			C31*		B31*		H31*			0	0	ADN205B-NDZ^	0	
205	XG32*	KG32*			C33*		B32*		H32*				0			
200	0												0			
187	0												0			
160	XG16*	KG16*				B16*							0			
150	XG7*	KG7*	C7^	C7*		B7^*		H7^*		V7^*			0			
145	XG6*	KG6*	C6^	C6*		B6^*		H6^*		V6^*						
139	0		C13^	C13*		B13^*		H13^*		V13^*						
136	XG9*	KG9*	C9^	C9*		B9^*		H9^*		V9^*						
135	XG5*	KG5*	C5^	C5*		B5^*		H5^*		V5^*						Z
133	XG8*	KG8*	C8^	C8*		B8^*		H8^*		V8^*						Model
130	XG4*	KG4*	C4^	C4*		B4^*		H4^*		V4^*						<u>e</u>
125	XG3^*	KG3^*	C3^	C3*		B3^*				V3^*						
123	0												0			
120	0												0			
115	XG2^*	KG2^*	C2^	C2*		B2^*		H2^*		V2^*			0			
105	0												0			
	XG1^*	KG1^*		C1^*	C1*	B1^*	B1*	H1^*	H1*	V1^*	V1*		0			
97	0				C21^*		B21^*		H21^*		V21^*		0			
93	0												0			
86	XG18^*	KG18^*		C18^*	C18*	B18^*	B18*	H18^*	H18*	V18^*	V18*		0			
) XG0*	KG0*	0	C0*	0	B0^*	B0*	H0^*	H0*	V0^*	V0*	0	0	0	0	\rightarrow
) rrent	3	2	7	Ę	5	3			2		1	50	55	50	80	-
C)^ Itage	60						50	50				49	4	48	24	
C)*	2	50	0	250	125	250	125	250	125	250	125					
Product Structure		Shape				⇒==()			Avial Sha					
	200 187 160 150 145 139 136 135 133 130 125 123 120 115 102 97 93 86 76 0 76 76 0 76 160 76 176 176 176 176 176 176 176 176 176 176 176 176 176	221 XG31* 205 XG32* 200 0 187 0 160 XG16* 150 XG7* 145 XG6* 139 0 136 XG9* 135 XG5* 133 XG4* 125 XG3^* 120 0 115 XG2^* 102 XG1^* 97 0 93 0 86 XG18^* 76 XG0* 0:rrent 3 0:rtage 2 Jurce	221 XG31* KG31* 205 XG32* KG32* 200 O O 187 O O 187 O O 187 O O 187 XG16* KG16* 150 XG7* KG7* 145 XG6* KG6* 139 O O 136 XG9* KG9* 135 XG5* KG5* 133 XG4* KG4* 135 XG2^* KG3* 130 XG4* KG4* 123 O O 124 XG2^* KG2** 135 XG2** KG2** 120 O O 121 O O 122 XG1** KG1** 97 O O 93 O O 94 XG0* KG0* 97 3 2 97 G0 O 97 G0 O <th>221 XG31* KG31* O 205 XG32* KG32* O 200 O O O 187 O O O 160 XG16* KG16* C17^ 145 XG6* KG6* C6^ 139 O O C13^ 136 XG9* KG9* C9^ 135 XG6* KG6* C6^ 133 XG8* KG8* C8^ 130 XG4* KG4* C4^ 125 XG2^* KG2^* C2^ 102 O O O O 120 O O O O 121 XG1^* KG1^* O O 122 XG1^* KG1^* O O 97 O O O O<</th> <th>221 XG31* KG31* O O 205 XG32* KG32* O O 200 O O O O 187 O O O O 160 XG16* KG16* O O 150 XG7* KG7* C7^ C7* 145 XG6* KG6* C6A C6* 139 O O C13^ C13* 136 XG9* KG9* C9^ C9* 135 XG8* KG8* C8A C8* 130 XG4* KG4* C4^ C4* 125 XG2A* KG2A* C2^ C2* 120 O O O O 121 O O O O 120 O O O O 121 XG2A* KG2A* C2^ C2* 122 XG3A* KG1A* O C1A* 97 O O O O</th> <th>221 XG31* KG31* O C31* 205 XG32* KG32* O C33* 200 O O O O O 187 O O O O O 160 XG16* KG16* C O O 150 XG7* KG7* C7^ C7* O 145 XG6* KG6* C6A C6* O 130 XG9* KG9* C9A C9* O 133 XG8* KG8* C8A C8* O 133 XG8* KG8* C3A C3* O 133 XG8* KG8* C3A C3* O 133 XG4* KG4* C4A C4* O 123 O O O O O 124 O O O O O 125 XG3A* KG1A* C2A C2* O 126 XG1A* KG1A* O C1A*</th> <th>221 XG31* KG31* O C31* O 205 XG32* KG32* O C33* O 200 O O O O O O 187 O O C13* C1* O B1** 145 XG6* KG6* C6A C6* O B6** 138 XG9* KG9* C9A C9* O B9** 135 XG5* KG5* C5* O B5** 133 XG4* KG4* C4^A C4* O B4** 125 XG3* KG3** C3* C3* D D 120 O O O O O O 121</th> <th>221 XG31* KG31* O C31* O B31* 205 XG32* KG32* O O C33* O B32* 200 O O O O O O O O 187 O O O O O O O O 180 XG16* KG16* C7^ C7* O B7* O 145 XG6* KG6* C6^ C6* O B6^* O 139 O O C13^ C13* O B9^* O 135 XG6* KG9* C9^A C9* O B9^* O 130 XG4* KG4* C4^A C4* O A4* O 122 XG3^* KG3^* C3^A C3* C3* B3** O 123 O O O O O O O O 123 XG2^** KG2^* C2^A C2* B2* O O</th> <th>221 XG31* KG31* 0 0 C31* 0 B31* 0 205 XG32* KG32* 0 0 0 0 0 0 200 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 0 180 XG1* KG1* C7A C7* 0 B7A* 0 H7A* 145 XG6* KG6* C6A C6* 0 B6A* 0 H6A* 139 0 C13^A C13* 0 B13** 0 H9A* 135 XG5* KG5* C5^A C5* 0 B5* 0 H9* 133 XG8* KG8* C8* C8* 0 B8* 0 H4* 133 XG4* KG4* C4A C4* 0 B4* 0 0 120 0 0 0 0 0 0 0 0 0</th> <th>221 XG31* KG31* O C31* O B31* O H31* 205 XG32* KG32* O C C33* D B32* O H32* 200 O <td< th=""><th>221 XG31* KG31* C C C31* C B31* H31* C 205 XG32* KG32* C C C33* B32* H32* C 200 C <td< th=""><th>221 XG31* KG31* G G C31* G B31* G H31* G G 205 XG32* KG32* G G C33* B32* H32* G G 200 G G G G G G G G G G 187 G</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* 0 C31* 0 B31* 0 H31* 0 0 0 0 0 205 XS32* KG31* 0 0 C33* 0 B32* 0 H32* 0<!--</th--><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 AB1* 0 0 0 0 ADN205B-MD2* 205 XG32* KG32* 0 0 C33* 0 B32* 0<!--</th--><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 0 0 0 205 XG32* KG32* C32* 0 B32* 0 H32* 0</th></th></th></td<></th></td<></th>	221 XG31* KG31* O 205 XG32* KG32* O 200 O O O 187 O O O 160 XG16* KG16* C17^ 145 XG6* KG6* C6^ 139 O O C13^ 136 XG9* KG9* C9^ 135 XG6* KG6* C6^ 133 XG8* KG8* C8^ 130 XG4* KG4* C4^ 125 XG2^* KG2^* C2^ 102 O O O O 120 O O O O 121 XG1^* KG1^* O O 122 XG1^* KG1^* O O 97 O O O O<	221 XG31* KG31* O O 205 XG32* KG32* O O 200 O O O O 187 O O O O 160 XG16* KG16* O O 150 XG7* KG7* C7^ C7* 145 XG6* KG6* C6A C6* 139 O O C13^ C13* 136 XG9* KG9* C9^ C9* 135 XG8* KG8* C8A C8* 130 XG4* KG4* C4^ C4* 125 XG2A* KG2A* C2^ C2* 120 O O O O 121 O O O O 120 O O O O 121 XG2A* KG2A* C2^ C2* 122 XG3A* KG1A* O C1A* 97 O O O O	221 XG31* KG31* O C31* 205 XG32* KG32* O C33* 200 O O O O O 187 O O O O O 160 XG16* KG16* C O O 150 XG7* KG7* C7^ C7* O 145 XG6* KG6* C6A C6* O 130 XG9* KG9* C9A C9* O 133 XG8* KG8* C8A C8* O 133 XG8* KG8* C3A C3* O 133 XG8* KG8* C3A C3* O 133 XG4* KG4* C4A C4* O 123 O O O O O 124 O O O O O 125 XG3A* KG1A* C2A C2* O 126 XG1A* KG1A* O C1A*	221 XG31* KG31* O C31* O 205 XG32* KG32* O C33* O 200 O O O O O O 187 O O C13* C1* O B1** 145 XG6* KG6* C6A C6* O B6** 138 XG9* KG9* C9A C9* O B9** 135 XG5* KG5* C5* O B5** 133 XG4* KG4* C4^A C4* O B4** 125 XG3* KG3** C3* C3* D D 120 O O O O O O 121	221 XG31* KG31* O C31* O B31* 205 XG32* KG32* O O C33* O B32* 200 O O O O O O O O 187 O O O O O O O O 180 XG16* KG16* C7^ C7* O B7* O 145 XG6* KG6* C6^ C6* O B6^* O 139 O O C13^ C13* O B9^* O 135 XG6* KG9* C9^A C9* O B9^* O 130 XG4* KG4* C4^A C4* O A4* O 122 XG3^* KG3^* C3^A C3* C3* B3** O 123 O O O O O O O O 123 XG2^** KG2^* C2^A C2* B2* O O	221 XG31* KG31* 0 0 C31* 0 B31* 0 205 XG32* KG32* 0 0 0 0 0 0 200 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 0 180 XG1* KG1* C7A C7* 0 B7A* 0 H7A* 145 XG6* KG6* C6A C6* 0 B6A* 0 H6A* 139 0 C13^A C13* 0 B13** 0 H9A* 135 XG5* KG5* C5^A C5* 0 B5* 0 H9* 133 XG8* KG8* C8* C8* 0 B8* 0 H4* 133 XG4* KG4* C4A C4* 0 B4* 0 0 120 0 0 0 0 0 0 0 0 0	221 XG31* KG31* O C31* O B31* O H31* 205 XG32* KG32* O C C33* D B32* O H32* 200 O <td< th=""><th>221 XG31* KG31* C C C31* C B31* H31* C 205 XG32* KG32* C C C33* B32* H32* C 200 C <td< th=""><th>221 XG31* KG31* G G C31* G B31* G H31* G G 205 XG32* KG32* G G C33* B32* H32* G G 200 G G G G G G G G G G 187 G</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* 0 C31* 0 B31* 0 H31* 0 0 0 0 0 205 XS32* KG31* 0 0 C33* 0 B32* 0 H32* 0<!--</th--><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 AB1* 0 0 0 0 ADN205B-MD2* 205 XG32* KG32* 0 0 C33* 0 B32* 0<!--</th--><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 0 0 0 205 XG32* KG32* C32* 0 B32* 0 H32* 0</th></th></th></td<></th></td<>	221 XG31* KG31* C C C31* C B31* H31* C 205 XG32* KG32* C C C33* B32* H32* C 200 C <td< th=""><th>221 XG31* KG31* G G C31* G B31* G H31* G G 205 XG32* KG32* G G C33* B32* H32* G G 200 G G G G G G G G G G 187 G</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* 0 C31* 0 B31* 0 H31* 0 0 0 0 0 205 XS32* KG31* 0 0 C33* 0 B32* 0 H32* 0<!--</th--><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 AB1* 0 0 0 0 ADN205B-MD2* 205 XG32* KG32* 0 0 C33* 0 B32* 0<!--</th--><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 0 0 0 205 XG32* KG32* C32* 0 B32* 0 H32* 0</th></th></th></td<>	221 XG31* KG31* G G C31* G B31* G H31* G G 205 XG32* KG32* G G C33* B32* H32* G G 200 G G G G G G G G G G 187 G	221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0	221 XG31* KG31* 0 C31* 0 B31* 0 H31* 0 0 0 0 0 205 XS32* KG31* 0 0 C33* 0 B32* 0 H32* 0 </th <th>221 XG31* KG31* 0 0 C31* 0 B31* 0 AB1* 0 0 0 0 ADN205B-MD2* 205 XG32* KG32* 0 0 C33* 0 B32* 0<!--</th--><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 0 0 0 205 XG32* KG32* C32* 0 B32* 0 H32* 0</th></th>	221 XG31* KG31* 0 0 C31* 0 B31* 0 AB1* 0 0 0 0 ADN205B-MD2* 205 XG32* KG32* 0 0 C33* 0 B32* 0 </th <th>221 XG31* KG31* 0 0 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PD Series

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