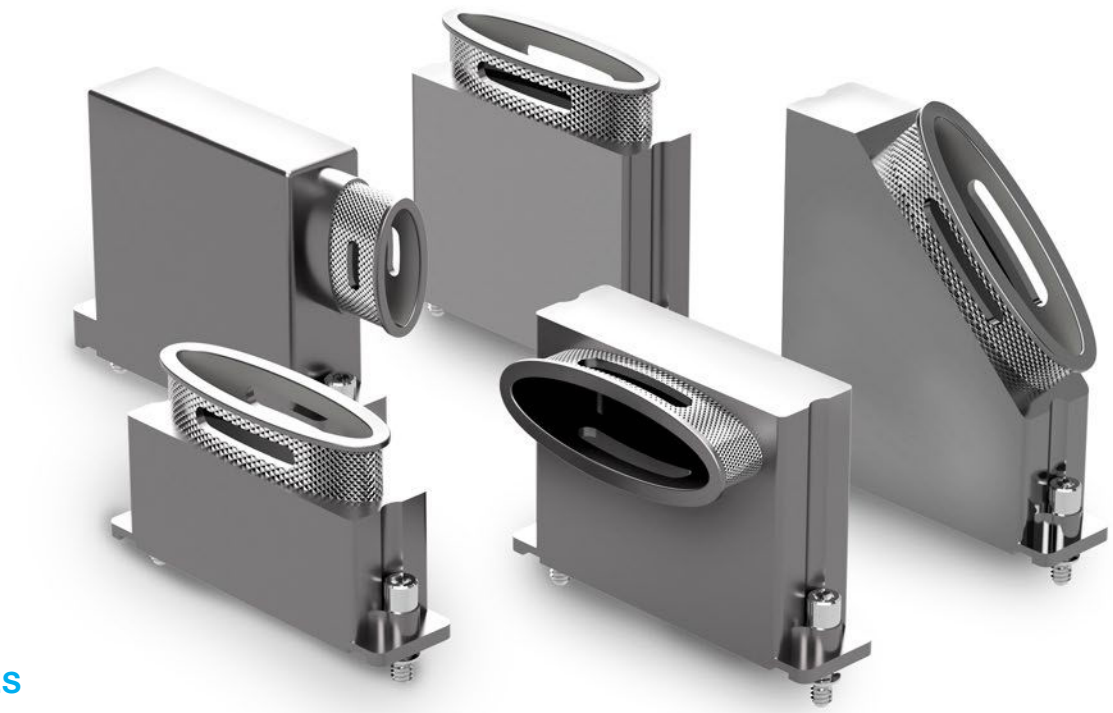
PRECISION MACHINED ONE-PIECE BANDED BACKSHELLS

LIGHTWEIGHT ALUMINUM OR STAINLESS STEEL

X* SERIES, FOR USE WITH D-SUB CONNECTORS, INCLUDING MACH-D



FEATURES

- Suitable with machined and stamped shells for standard, high, and mixed density D-Sub connectors, including the Mach-D Series
- Available in sizes 1 through 6
- Banded elliptical entry, slotted, knurled
- Top and top low-profile, front, 45° and 90° side entry
- Rotating or fixed jackscrews
- Spacious interior
- One-piece construction
- Metal backshell offers EMI protection
- Suitable for robust use
- Customizable

TECH SPECS

Performance Level	Mil/Aero / Spaceflight / Industrial
RoHS Compliance	Compliant when /AA suffix is applied

MATERIAL AND FINISHES

Material	Aluminum:	Conductive electroless nickel; low-mag electroless nickel; yellow anodize; gold; chemical conversion coating
	Stainless Steel:	Passivated
Hardware	Stainless steel, passivated Brass with 1.27µm min. gold plate	

MECHANICAL

Cable Entry	Top; 45° side; 90° side; front
Locking System	Jackscrews

ENVIRONMENTAL

Operating Temperature	-55 to 125°C

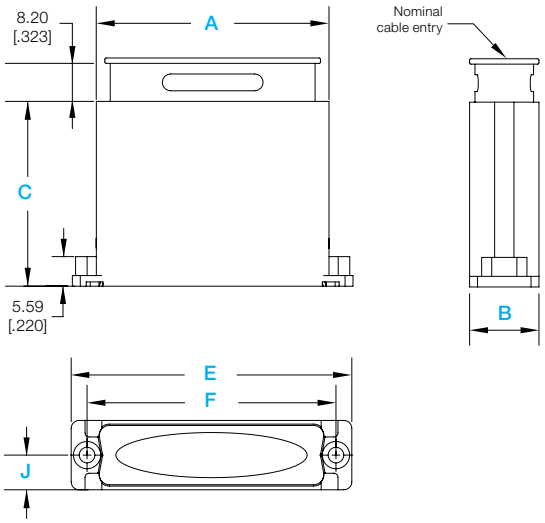
LIGHTWEIGHT ALUMINUM OR STAINLESS BACKSHELLS

For the sake of brevity, only basic dimensions are shown here. Additional dimensional detail is available in the respective product drawings.

For use with code E or T2

XP

Backshell, banded, aluminum or stainless steel, top entry



XP backshell shown with **E** option

XP backshell shown with **T2** option

Dimensions are in millimeters [inches]

PART NUMBER	Shell Size	A	B	C	E	F	G Cable Entry*2	J	Total Mass*3 *4
D9000XPN*1E0 D9000XPN*1T20	1	21.97 [.865]	13.11 [.516]	34.93 [1.375]	30.81 [1.213]	24.99 [.984]	14.12 X 8.53 [556 X .336]	6.55 [.258]	8.1 grams
D15000XPN*1E0 D15000XPN*1T20	2	30.30 [1.193]	13.11 [.516]	34.93 [1.375]	39.14 [1.541]	33.32 [1.312]	22.45 X 8.53 [.884 X .336]	6.55 [.258]	10.1 grams
D25000XPN*1E0 D25000XPN*1T20	3	43.97 [1.731]	13.11 [.516]	34.93 [1.375]	53.04 [2.088]	47.04 [1.852]	36.17 X 8.53 [1.424 X .336]	6.55 [.258]	13.4 grams
D37000XPN*1E0 D37000XPN*1T20	4	60.43 [2.379]	13.11 [.516]	34.93 [1.375]	69.32 [2.729]	63.50 [2.500]	52.63 X 8.53 [2.072 X .336]	6.55 [.258]	17.6 grams
D50000XPN*1E0 D50000XPN*1T20	5	58.04 [2.285]	16.03 [.631]	34.93 [1.375]	66.93 [2.635]	61.11 [2.406]	50.24 X 11.48 [1.978 X .448]	8.01 [.316]	18.2 grams
D104000XPN*1E0 D104000XPN*1T20	6	60.43 [2.379]	17.60 [.693]	34.93 [1.375]	69.32 [2.729]	63.50 [2.500]	52.63 X 12.95 [2.072 X .510]	8.80 [.347]	18.4 grams

*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 7.

*2 Custom cable entry is available. Contact Technical Sales for more information.

*3 Total Mass shown is for D*000XPNT20 configuration. For Total Mass of E jackscrew option, add 1.7 grams to the listed value.

*4 Total Mass shown is for aluminum configurations. For Total Mass of stainless steel options, contact Technical Sales.

LIGHTWEIGHT ALUMINUM OR STAINLESS BACKSHELLS

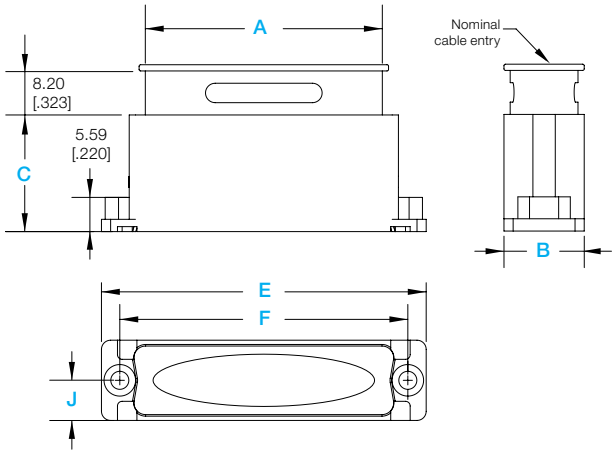
For the sake of brevity, only basic dimensions are shown here. Additional dimensional detail is available in the respective product drawings.

For use with code E or T2

XW

Backshell, banded, aluminum or stainless steel, top entry, low profile

The low-profile design of the XW backshell may limit compatibility with certain connector configurations.



XW backshell shown with **E** option

XW backshell shown with **T2** option

Dimensions are in millimeters [inches]

PART NUMBER	Shell Size	A	B	C	E	F	G Cable Entry*2	J	Total Mass*3 *4
D9000XWN*1E0 D9000XWN*1T20	1	21.97 [.865]	13.11 [.516]	19.05 [.750]	30.81 [1.213]	24.99 [.984]	14.12 X 8.53 [556 X .336]	6.55 [.258]	5.5 grams
D15000XWN*1E0 D15000XWN*1T20	2	30.30 [1.193]	13.11 [.516]	19.05 [.750]	39.14 [1.541]	33.32 [1.312]	22.45 X 8.53 [.884 X .336]	6.55 [.258]	7.6 grams
D25000XWN*1E0 D25000XWN*1T20	3	43.97 [1.731]	13.11 [.516]	19.05 [.750]	53.04 [2.088]	47.04 [1.852]	36.17 X 8.53 [1.424 X .336]	6.55 [.258]	8.9 grams
D37000XWN*1E0 D37000XWN*1T20	4	60.43 [2.379]	13.11 [.516]	19.05 [.750]	69.32 [2.729]	63.50 [2.500]	52.63 X 8.53 [2.072 X .336]	6.55 [.258]	11.8 grams
D50000XWN*1E0 D50000XWN*1T20	5	58.04 [2.285]	16.03 [.631]	19.05 [.750]	66.93 [2.635]	61.11 [2.406]	50.24 X 11.48 [1.978 X .448]	8.01 [.316]	12.2 grams
D104000XWN*1E0 D104000XWN*1T20	6	60.43 [2.379]	17.60 [.693]	19.05 [.750]	69.32 [2.729]	63.50 [2.500]	52.63 X 12.95 [2.072 X .510]	8.80 [.347]	12.5 grams

*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 7.

*2 Custom cable entry is available. Contact Technical Sales for more information.

*3 Total Mass shown is for D*000XWNT20 configuration. For Total Mass of E jackscrew option, add 1.7 grams to the listed value.

*4 Total Mass shown is for aluminum configurations. For Total Mass of stainless steel options, contact Technical Sales.

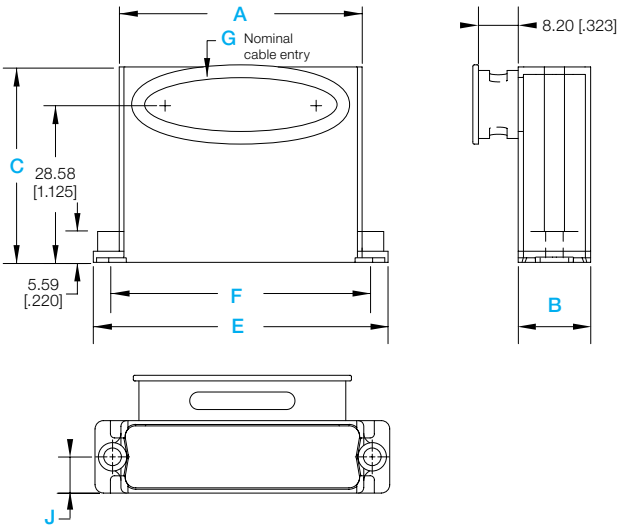
LIGHTWEIGHT ALUMINUM OR STAINLESS BACKSHELLS

For the sake of brevity, only basic dimensions are shown here. Additional dimensional detail is available in the respective product drawings.

For use with code E or T2

XR

Backshell, banded, aluminum or stainless steel, front entry



XR backshell shown with **E** option

XR backshell shown with **T2** option

Dimensions are in millimeters [inches]

PART NUMBER	Shell Size	A	B	C	E	F	G Cable Entry*2	J	Total Mass*3 *4
D9000XR*1NE0 D9000XRN*1T20	1	21.97 [.865]	13.11 [.516]	35.38 [1.393]	31.06 [1.223]	24.99±0.13 [.984±.005]	12.88 X 9.78 [.507 X .385]	6.55 [.258]	8.3 grams
D15000XRN*1E0 D15000XRN*1T20	2	30.30 [1.193]	13.11 [.516]	35.38 [1.393]	39.40 [1.551]	33.32±0.13 [1.312±.005]	21.21 X 9.78 [.835 X .385]	6.55 [.258]	10.3 grams
D25000XRN*1E0 D25000XRN*1T20	3	43.97 [1.731]	13.11 [.516]	35.38 [1.393]	53.37 [2.101]	47.04±0.13 [1.852±.005]	34.93 X 9.78 [1.375 X .385]	6.55 [.258]	13.7 grams
D37000XRN*1E0 D37000XRN*1T20	4	60.43 [2.379]	13.11 [.516]	35.38 [1.393]	69.65 [2.742]	63.50±0.13 [2.500±.005]	51.38 X 9.78 [2.023 X .385]	6.55 [.258]	18.1 grams
D50000XRN*1E0 D50000XRN*1T20	5	58.04 [2.285]	16.03 [.631]	36.80 [1.449]	67.26 [2.648]	61.11±0.13 [2.406±.005]	49.00 X 12.62 [1.929 X .497]	8.01 [.316]	19.7 grams
D104000XRN*1E0 D104000XRN*1T20	6	60.43 [2.379]	17.60 [.693]	37.59 [1.480]]	69.65 [2.742]	63.50±0.13 [2.500±.005]	51.38 X 14.20 [2.023 X .559]	8.80 [.347]	20.0 grams

*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 7.

*2 Custom cable entry is available. Contact Technical Sales for more information.

*3 Total Mass shown is for D*000XRNT20 configuration. For Total Mass of E jackscrew option, add 1.7 grams to the listed value.

*4 Total Mass shown is for aluminum configurations. For Total Mass of stainless steel options, contact Technical Sales.

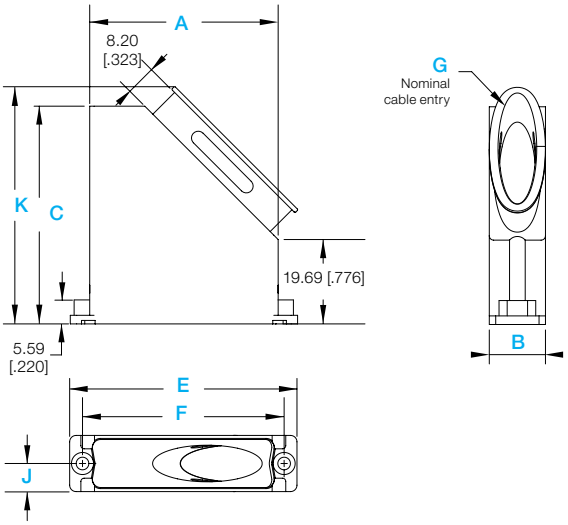
LIGHTWEIGHT ALUMINUM OR STAINLESS BACKSHELLS

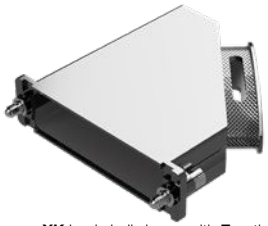
For the sake of brevity, only basic dimensions are shown here. Additional dimensional detail is available in the respective product drawings.

For use with code E or T2

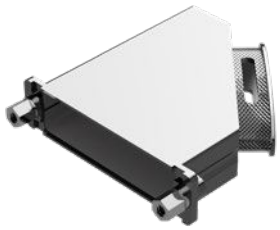
XK

Backshell, banded, aluminum or stainless steel, 45° side entry





XK backshell shown with **E** option



XK backshell shown with **T2** option

Dimensions are in millimeters [inches]

PART NUMBER	Shell Size	A	B	C	E	F	G Cable Entry*2	J	K	Total Mass*3 *4
D9000XKN*1E0 D9000XKN*1T20	1	21.97 [.865]	13.11 [.516]	35.23 [1.387]	30.81 [1.213]	24.99 [.984]	14.12 X 8.53 [.556 X .336]	6.55 [.258]	39.78 [1.566]	7.5 grams
D15000XKN*1E0 D15000XKN*1T20	2	30.30 [1.193]	13.11 [.516]	41.12 [1.619]	39.14 [1.541]	33.32 [1.312]	22.45 X 8.53 [.884 X .336]	6.55 [.258]	45.66 [1.798]	10.1 grams
D25000XKN*1E0 D25000XKN*1T20	3	43.97 [1.731]	13.11 [.516]	50.80 [2.000]	53.04 [2.088]	47.04 [1.852]	36.17 X 8.53 [1.424 X .336]	6.55 [.258]	55.34 [2.179]	15.2 grams
D37000XKN*1E0 D37000XKN*1T20	4	60.43 [2.379]	13.11 [.516]	62.43 [2.458]	69.32 [2.729]	63.50 [2.500]	52.63 X 8.53 [2.072 X .336]	6.55 [.258]	66.98 [2.637]	22.8 grams
D50000XKN*1E0 D50000XKN*1T20	5	58.04 [2.285]	16.03 [.631]	60.73 [2.391]	66.93 [2.635]	61.11 [2.406]	50.24 X 11.38 [1.978 X .448]	8.01 [.316]	65.29 [2.570]	23.1 grams
D104000XKN*1E0 D104000XKN*1T20	6	60.43 [2.379]	17.60 [.693]	62.43 [2.458]	69.32 [2.729]	63.50 [2.500]	52.63 X 12.95 [2.072 X .510]	8.80 [.347]	67.25 [2.648]	24.0 grams

*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 7.

*2 Custom cable entry is available. Contact Technical Sales for more information.

*3 Total Mass shown is for D*000XKNT20 configuration. For Total Mass of E jackscrew option, add 1.7 grams to the listed value.

*4 Total Mass shown is for aluminum configurations. For Total Mass of stainless steel options, contact Technical Sales.

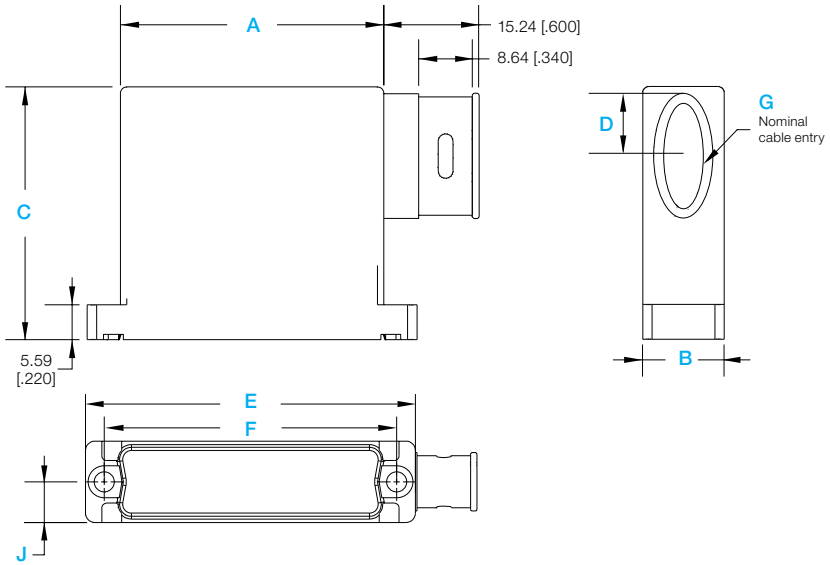
LIGHTWEIGHT ALUMINUM OR STAINLESS BACKSHELLS

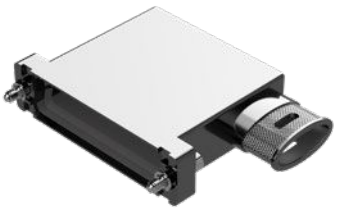
For the sake of brevity, only basic dimensions are shown here. Additional dimensional detail is available in the respective product drawings.

For use with code E or T2

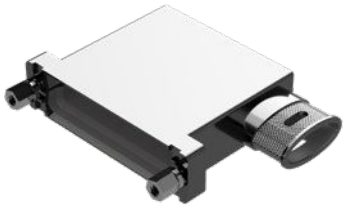
XS

Backshell, banded, aluminum or stainless steel, 90° side entry





XS backshell shown with **E** option



XS backshell shown with **T2** option

Dimensions are in millimeters [inches]

PART NUMBER	Shell Size	A	B	C	D	E	F	G Cable Entry*2	J	Total Mass*3 *4
D9000XSN*1E0 D9000XSN*1T20	1	20.32 [.800]	13.11 [.516]	34.29 [1.350]	7.95 [.313]	30.81 [1.213]	24.99 [.984]	10.67 X 6.35 [.420 X .250]	6.55 [.258]	10.5 grams
D15000XSN*1E0 D15000XSN*1T20	2	28.65 [1.128]	13.11 [.516]	37.47 [1.475]	9.53 [.375]	39.14 [1.541]	33.32 [1.312]	13.84 X 6.35 [.545 X .250]	6.55 [.258]	14.1 grams
D25000XSN*1E0 D25000XSN*1T20	3	42.37 [1.668]]	13.11 [.516]	40.64 [1.600]	11.13 [.438]	53.04 [2.088]	47.04 [1.852]	17.02 X 6.35 [.670 X .250]	6.55 [.258]	20.0 grams
D37000XSN*1E0 D37000XSN*1T20	4	58.83 [2.316]	13.11 [.516]	43.82 [1.725]	12.73 [.501]	69.32 [2.729]	63.50 [2.500]	20.19 X 6.35 [.795 X .250]	6.55 [.258]	27.7 grams
D50000XSN*1E0 D50000XSN*1T20	5	56.44 [2.222]	15.95 [.628]	43.82 [1.725]	12.73 [.501]	66.93 [2.635]	61.11 [2.406]	20.19 X 9.19 [.795 X .362]	7.98 [.314]	28.6 grams
D104000XSN*1E0 D104000XSN*1T20	6	58.83 [2.316]	17.53 [.690]	46.99 [1.850]	14.30 [.563]	69.32 [2.729]	63.50 [2.500]	23.37 X 10.77 [.920 X .424]	8.76 [.345]	31.4 grams

*1 For additional 'Material & Finish Options', replace 'N' with desired 'Code' from Create A Part on page 7.

*2 Custom cable entry is available. Contact Technical Sales for more information.

*3 Total Mass shown is for D*000XSNT20 configuration. For Total Mass of E jackscrew option, add 1.7 grams to the listed value.

*4 Total Mass shown is for aluminum configurations. For Total Mass of stainless steel options, contact Technical Sales.

D	15	0	0	0	XRN	E	0	/AA

Series

D D-Sub

Layout

9 Shell size 1
15 Shell size 2
25 Shell size 3
37 Shell size 4
50 Shell size 5
104 Shell size 6

Contact Gender

0 None

Termination

0 None

Mounting Options

0 None

Environmental Compliance

/AA RoHS Compliant

Connector Material & Finish

0 Material & Finish per Backshell Style Selection

Locking Systems

E Rotating male jackscrews, 4-40 UNC threads, slotted thumbscrews
T2 Fixed female jackposts, 4-40 UNC threads, washer set

Backshell Style

BACKSHELL TYPE	6.1
XP	Top entry
XW	Top entry, low profile
XR	Front entry
XK	45° Side entry
XS	90° Side entry

Contact sales for spaceflight-suitable configurations

MATERIAL & FINISH OPTIONS		6.2
Backshell Finish		**Hardware Material**
Standard Platings		
N	Electroless nickel, low-mag	Stainless steel, passivated
S	Stainless steel, passivated	Stainless steel, passivated
C	No finish	Stainless steel, passivated
Optional Platings		
A	Anodize, yellow	Stainless steel, passivated
G	Gold 0.76µm min.	Brass, 1.27µm min. gold plate
I	Chemical conversion coating	Stainless steel, passivated
L	Electroless nickel, conductive	Stainless steel, passivated

Note

MoS 3187 – Replaces standard kitted hardware with gold-plated brass hardware (not valid with G plating) Example: RD25S10XRNE0/AA-3187

Our backshells are also available as part of connector kits. To include a backshell in a connector kit, insert the appropriate Backshell Series (shown above) into the Backshells & Boardlocks step of a connector part number. Examples follow:

Series	Layout	Contact Gender	Termination	Mounting Option	Backshells & Boardlocks	Locking Systems	Shells	Environmental Compliance	PART NUMBER
RD	15	M	1	0	XWN	E	S	/AA	RD15M10XWNES/AA
DD	44	P	2	0	XRN	E	S	/AA	DD44P20XRNES/AA
CBC	7W2	M	11	0	XPN	T2	0	/AA	CBC7W2M110XPNT20/AA
SDD	26	S	1	0	XKN	E	G	/AA	SDD26S10XKNEG/AA

All dimensional tolerances are ± 0.38 [0.015], unless otherwise specified. Dimensions are in millimeters [inches]. All dimensions are subject to change. Product pictures may not be identical in appearance to actual production parts.

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Products described within this catalog may be protected by one or more of the following US patents:

#4,900,261* #5,255,580 #5,329,697 #6,260,268
#6,835,079 #7,115,002 #8,944,697 #9,304,263

*Patented in Canada, 1992 Other patents pending

Federal Supply Code for Manufacturers

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