

Structured Product Details

Buffered Bullish Enhanced Return Notes linked to Dow Jones Industrial Average Index

Issue Size \$1.02 million Issue Price \$1,000 60 Months Term **Annualized Coupon** 0.00%

January 28, 2013 **Pricing Date** Issue Date January 31, 2013 Valuation Date January 29, 2018 Maturity Date January 31, 2018

Royal Bank of Canada Issuer **CDS** Rate 104.06 bps 1.01% Swap Rate

Reference Asset the Dow Jones Industrial Average Index Initial Level 13,881.93 Dividend Rate 2.48% 16.59% Implied Volatility Delta1

CUSIP 78008SUH7 www.sec.gov/Archives/edgar/ data/1000275/000121465913000395/ SEC Link

j129132424b2.htm

Related Research

Fair Price at Issue

Research Papers:

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- "Are Structured Products Suitable for Retail Investors?" December 2006.
- "Structured Products in the Aftermath of Lehman Brothers," November 2009.
- "What TiVo and JP Morgan Teach Us about Reverse Convertibles," June 2010.

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Buffered Bullish Enhanced Return Notes linked to Dow Jones Industrial Average Index

Description

Report Prepared On: 08/02/13

Royal Bank of Canada issued \$1.02 million of Buffered Bullish Enhanced Return Notes linked to Dow Jones Industrial Average Index on January 31, 2013 at \$1,000 per note.

These notes are Royal Bank of Canada-branded Buffered PLUS securities that do not pay periodic coupons, but instead pay a single amount at maturity depending on the final level of the Dow Jones Industrial Average Index.

If on January 29, 2018 the Dow Jones Industrial Average Index level is higher than 13,881.93, the notes pay a return equal to the percentage increase in the Dow Jones Industrial Average Index multiplied by 1.19. If on January 29, 2018 the refe is below 13,881.93 but not below 8329.16, investors receive \$1,000 face value per note. If the Dow Jones Industrial Average Index level on January 29, 2018 is lower than 8329.16, investors receive face value per note reduced by 1.67 times the amount the reference asset is below 8329.16 as a percent of the initial level, 13,881.93.

Valuation

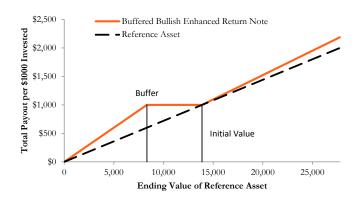
0.61

\$992.40

This product can be valued as a combination of a note from Royal Bank of Canada, 1.67 short out-of-the-money put options, and 1.19 long at-the-money call options. For reasonable valuation inputs this note was worth \$992.40 when it was issued on January 31, 2013 because the value of the options investors gave Royal Bank of Canada plus the interest investors would have received on Royal Bank of Canada's straight debt was worth \$7.60 more than the options investors received from Royal Bank of Canada.

There is no active secondary market for most structured products. Structured products, including this note, therefore are much less liquid than simple stocks, bonds, notes and mutual funds. Investors are likely to receive less than the structured product's estimated market value if they try to sell the structured product prior to maturity. Our valuations do not incorporate this relative lack of liquidity and therefore should be considered an upper bound on the value of the structured product.

Payoff Curve at Maturity

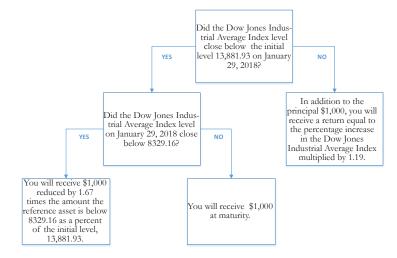


The payoff diagram shows the final payoff of this note given the Dow Jones Industrial Average Index level (horizontal axis). For comparison, the dashed line shows the payoff if you invested in the Dow Jones Industrial Average Index directly.

Principal Payback Table

The Dow Jones Industrial Average Index	Note Payoff
0.00	\$0.00
1,388.19	\$166.65
2,776.39	\$333.32
4,164.58	\$499.99
5,552.77	\$666.66
6,940.97	\$833.33
8,329.16	\$1,000.00
9,717.35	\$1,000.00
11,105.54	\$1,000.00
12,493.74	\$1,000.00
13,881.93	\$1,000.00
15,270.12	\$1,118.75
16,658.32	\$1,237.50
18,046.51	\$1,356.25
19,434.70	\$1,475.00
20,822.90	\$1,593.75

Maturity Payoff Diagram

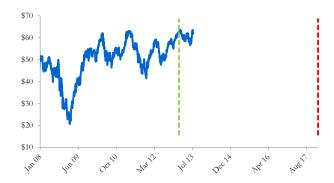


The contingent payoffs of this Buffered Bullish Enhanced Return Note.

Analysis

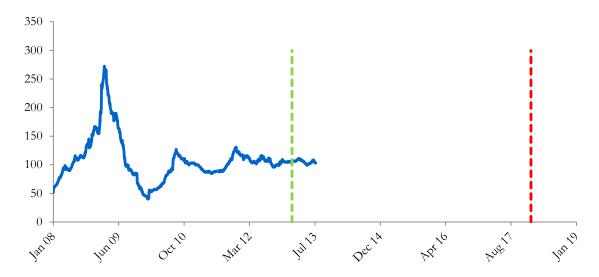
This Buffered Bullish Enhanced Return Note pays investors the increase in the Dow Jones Industrial Average Index multiplied by 1.19, but if the Dow Jones Industrial Average Index declines over the term of the note, investors will suffer losses equal to the percentage decline in the Dow Jones Industrial Average Index. In addition, investors bear the credit risk of Royal Bank of Canada. Investors purchasing this Buffered Bullish Enhanced Return Note effectively sell at-the-money put options to Royal Bank of Canada, buy at-the-money call options, and a zero-coupon note from Royal Bank of Canada. This Buffered Bullish Enhanced Return Note is fairly priced if and only if the market value of the options investors received from Royal Bank of Canada equals the market value of the options investors gave Royal Bank of Canada plus the interest investors would have received on Royal Bank of Canada's straight debt.

Royal Bank of Canada's Stock Price



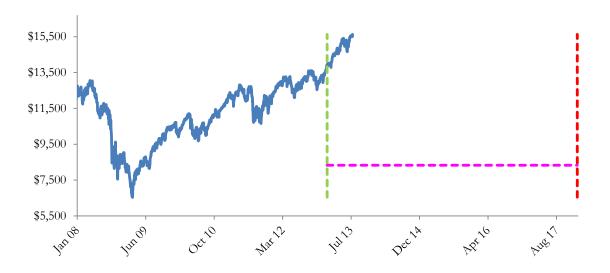
The graph above shows the adjusted closing price of the issuer Royal Bank of Canada for the past several years. The stock price of the issuer is an indication of the financial strength of Royal Bank of Canada. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

Royal Bank of Canada's CDS Rate



Credit default swap (CDS) rates are the market price that investors require to bear credit risk of an issuer such as Royal Bank of Canada. CDS rates are usually given in basis points (bps). One basis point equals 0.01%. Higher CDS rates reflect higher perceived credit risk, higher required yields, and therefore lower market value of Royal Bank of Canada's debt, including outstanding Buffered Bullish Enhanced Return Note. Fluctuations in Royal Bank of Canada's CDS rate impact the market value of the notes in the secondary market.

The Dow Jones Industrial Average Index Level

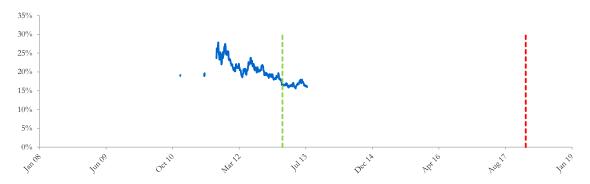


The graph above shows the historical levels of the Dow Jones Industrial Average Index for the past several years. The final payoff of this note is determined by the Dow Jones Industrial Average Index level correspond to a greater uncertainty in the final payout of this Buffered Bullish Enhanced Return Note.

Realized Payoff

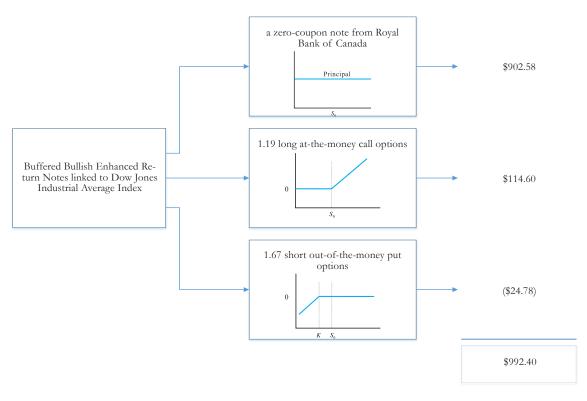
This product will mature on January 31, 2018.

Reference Asset The Dow Jones Industrial Average Index's Implied Volatility



The annualized implied volatility of the Dow Jones Industrial Average Index on January 28, 2013 was 16.59%, meaning that options contracts on the Dow Jones Industrial Average Index were trading at prices that reflect an expected annual volatility of 16.59%. The higher the implied volatility, the larger the expected fluctuations of the Dow Jones Industrial Average Index level and of the Note's market value during the life of the Notes.

Decomposition of this Buffered Bullish Enhanced Return Note



This note can be decomposed into different components, and each component can be valued separately. The chart above shows the value of each component of this Buffered Bullish Enhanced Return Note.

- 1. Delta measures the sensitivity of the price of the note to the the Dow Jones Industrial Average Index level on January 28, 2013.

 2. CDS rates can be considered a measure of the probability that an issuer will default over a certain period of time and the likely loss given a default. The lower the CDS rate, the lower the default probability. CDS rate is given in basis points (1 basis point equals 0.01%), and is considered as a market premium, on top of the risk-free rate, that investors require to insure against a potential default.

 3. Fair price evaluation is based on the Black-Scholes model of the the Dow Jones Industrial Average Index on January 28, 2013.

 4. Calculated payout at maturity is only an approximation, and may differ from actual payouts at maturity.

 5. Our evaluation does not include any transaction fees, broker commissions, or liquidity discounts on the notes.