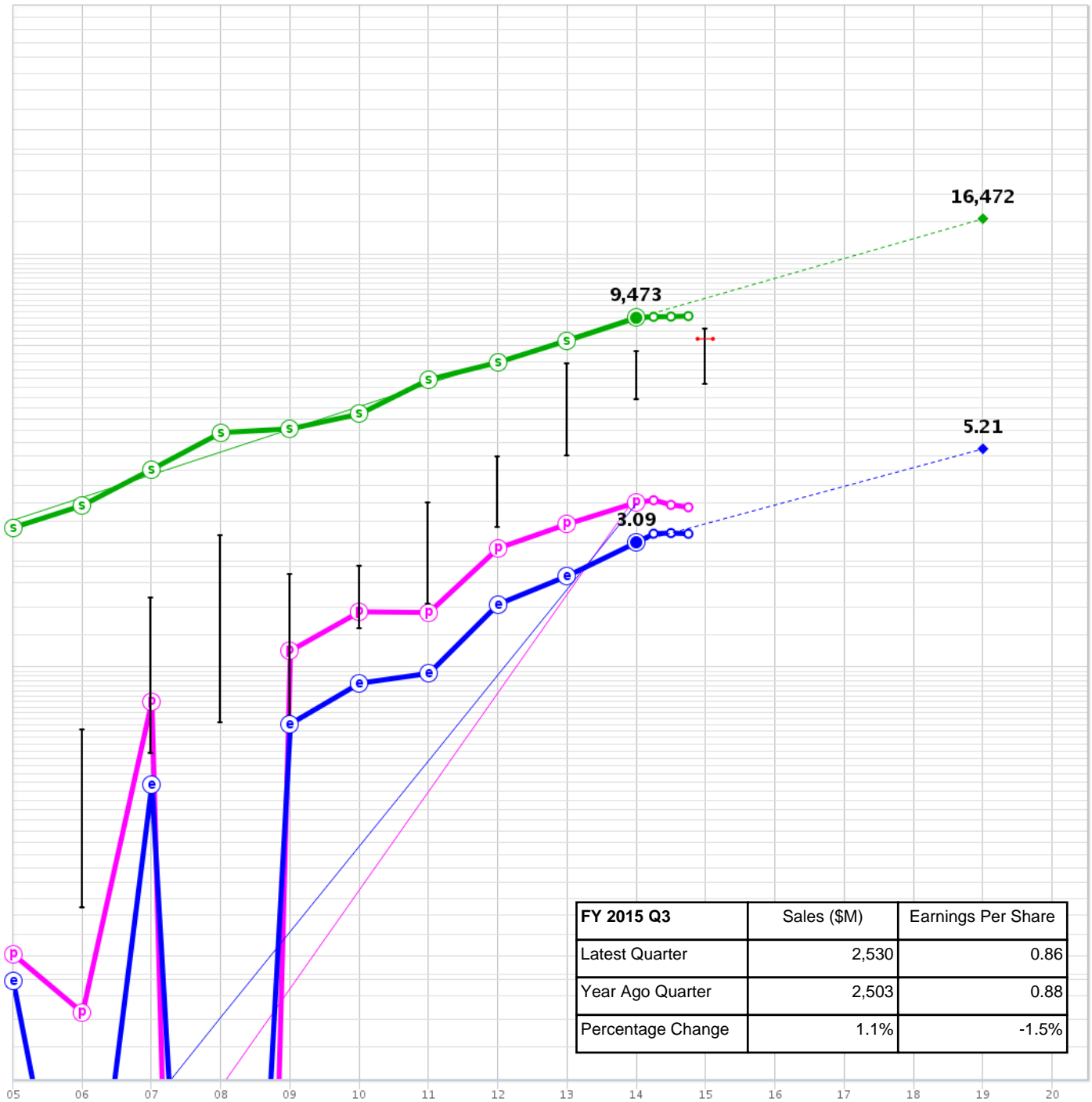


Company	MasterCard		Date	12/18/15	
Prepared by	HARPER		Data taken from	BI Stock Data	
Where traded	NYS	Industry	Credit Services		
Capitalization --- Outstanding Amounts	Reference				
Preferred (\$M)	0.0	% Insiders	% Institution		
Common (M Shares)	1,133.0	0.1	74.5		
Debt (\$M)	1,495.0	% to Tot Cap	19.3	% Pot Dil	0.3

# Stock Selection Guide

Symbol: MA

## 1 VISUAL ANALYSIS of Sales, Earnings, and Price



- |                                   |       |  |       |
|-----------------------------------|-------|--|-------|
| (1) Historical Sales Growth       | 13.5% | (3) Historical Earnings Per Share Growth       | 61.3% |
| (2) Estimated Future Sales Growth | 11.7% | (4) Estimated Future Earnings Per Share Growth | 11.0% |

## 2 EVALUATING Management

MasterCard

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Last 5 Year Avg.
Pre-tax Profit on Sales	13.9%	8.8%	41.1%	-7.7%	43.5%	49.8%	40.9%	53.2%	53.9%	53.6%	50.3%
% Earned on Equity		2.2%	34.7%	-13.1%	35.8%	33.4%	30.5%	37.6%	40.0%	54.9%	39.3%
% Debt To Capital	16.4%	8.9%	7.1%	8.1%	0.6%	0.0%	0.0%	0.0%	0.0%	18.0%	3.6%

## 3 PRICE-EARNINGS HISTORY as an indicator of the future

This shows how stock prices have fluctuated with earnings and dividends. It is building block for translating earnings into future stock prices.

**CLOSING PRICE** 96.29 (12/18/15)

**HIGH THIS YEAR** 101.76

**LOW THIS YEAR** 74.61

	A	B	C	D	E	F	G	H
Year	Price		Earnings	Price Earnings Ratio		Dividend	% Payout	% High Yield
	High	Low	Per Share	High A / C	Low B / C	Per Share	F / C * 100	F / B * 100
2010	27.0	19.1	1.41	19.2	13.6	0.06	4.3	0.3
2011	38.5	21.9	1.49	25.9	14.7	0.06	4.0	0.3
2012	49.9	33.6	2.19	22.8	15.4	0.12	5.5	0.4
2013	83.9	50.1	2.57	32.7	19.5	0.29	11.3	0.6
2014	89.9	68.7	3.09	29.0	22.2	0.49	15.8	0.7
AVERAGE		38.7		25.9	17.1		8.2	
CURRENT/TTM			3.25			0.76	23.4	
AVERAGE PRICE EARNINGS RATIO 21.5				CURRENT PRICE EARNINGS RATIO 29.7				

## 4 EVALUATING RISK and REWARD over the next 5 years

Assuming one recession and one business boom every 5 years, calculations are made of how high and how low the stock might sell. The upside-downside ratio is the key to evaluating risk and reward.

### A HIGH PRICE - NEXT 5 YEARS

Avg. High P/E 29.7 X Estimate High Earnings/Share 5.21 = Forecasted High Price \$ 154.8

### B LOW PRICE - NEXT 5 YEARS

(a) Avg. Low P/E 17.1 X Estimate Low Earnings/Share 3.09 = Forecasted Low Price \$ 52.8

(b) Avg. Low Price of Last 5 Years 38.7

(c) Recent Market Low Price 50.1

(d) Price Dividend Will Support  $\frac{\text{Indicated Dividend}}{\text{High Yield}} = \frac{0.49}{0.71\%} = 68.7$

Selected Forecasted Low Price \$ 38.7

### C ZONING using 25%-50%-25%

Forecasted High Price 154.8 Minus Forecasted Low Price 38.7 = 116.2 Range. 25% of Range 29.0

Buy Zone 38.7 to 67.7

Hold Zone 67.7 to 125.8

Sell Zone 125.8 to 154.8

Present Market Price of 96.29 is in the **HOLD** Zone

### D UPSIDE DOWNSIDE RATIO (POTENTIAL GAIN VS. RISK OR LOSS)

$\frac{\text{High Price } 154.8 - \text{Present Price } 96.29}{\text{Present Price } 96.29 - \text{Minus Low Price } 38.7} = \frac{58.55}{57.60} = 1.0$  To 1

### E PRICE TARGET (Note: This shows the potential market price appreciation over the next five years in simple interest terms.)

$\frac{\text{High Price } 154.8}{\text{Closing Price } 96.29} = 1.6081 \times 100 = 160.81 - 100 = 60.8$  % Appreciation

## 5 5-YEAR POTENTIAL

This combines price appreciation with dividend yield to get an estimate of total return. It provides a standard for comparing income and growth stocks.

**A**  $\frac{\text{Indicated Annual Dividend } 0.49}{\text{Closing Price } 96.29} = 0.0079 = 0.8\%$  Current Yield

### B AVERAGE YIELD - USING FORECAST HIGH P/E

$\frac{\text{Avg. \% Payout } 8.2\%}{\text{Forecast High PE } 29.70} = 0.3\%$

### AVERAGE YIELD - USING FORECAST AVERAGE P/E

$\frac{\text{Avg. \% Payout } 8.2\%}{\text{Forecast Average PE } 23.40} = 0.3\%$

### C COMPOUND ANNUAL RETURN - USING FORECAST HIGH P/E

Annualized Appreciation 10.0 %  
Average Yield 0.3 %  
Annualized Rate of Return 10.2 %

### COMPOUND ANNUAL RETURN - USING FORECAST AVG P/E

Annualized Appreciation 4.8 %  
Average Yield 0.3 %  
Annualized Rate of Return 5.2 %