

## **INVESTOR PRESENTATION** May 2024

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#### **Product Tutorial**

• What MPTI Makes and Why It Matters



- Company Overview
- Markets & Products
- Financial Performance
- Summary







2

## Who is Mtron Industries, Inc. (NYSEAM:MPTI)?

#### MPTI is a high technology firm that designs and manufactures highly reliable, precision:

- Radio Frequency (RF) components (Oscillators, Filters and Resonators)
- Solutions, which solve larger engineering challenges





## What Are Oscillators?

#### Oscillators are crucial components in various electronics systems that produce:

- Clock Generation
  - A periodic signal that synchronizes digital circuits which is fundamental for coordinating the activities of multiple devices in complex systems in computers and control, communication, and data transmission systems
- Frequency Generation
  - Signals at precise frequencies, which are necessary for RF communication, Radars and Electronic Warfare systems
  - Controlling the frequency of the oscillator over time and temperature with minimal phase noise ensures reliable transmission and reception of signals







## Why are MPTI's Oscillators Important?

#### Communication and Data Transmission Systems

- Low drift enhances faster and error-free transmission
- Ultra-low phase noise enables clearer, more reliable data transmission

**Best In-Class Phase Noise** 



#### Radar

- Low drift improves accuracy of radar measurements
- Reduced phase noise improves radar detection of slower and smaller objects

World's Best Performance Vibration Immune OCXO



#### **Electronic Warfare (EW) Systems**

• High stability improves jamming, deception, and intelligence gathering

Smallest Hi-Frequency OCXO Available



#### **Control Systems**

• Low drift maximizes synchronization of multiple components within a communication system

World Class Drift Performance

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Ultra-low phase noise, low drift oscillators in various product families (XO, TCXO, VCXO, TCVCXO, OCXO) allow customers to design superior performance products



## What Is A Filter?

#### Electronic filters are essential components in electronic systems for many reasons:

#### Frequency Selectivity

 Filters selectively pass or reject specific frequency components of a signal, which is essential in applications such as radio communication, radars, and electronic warfare where different channels or bands need to be separated to avoid interference and extract desired signals

#### Bandwidth Limiting

 Filters limit the bandwidth of signals, allowing only a certain range of frequencies to pass through. This is important in data communication, radars, and electronic warfare where bandwidth constraints need to be enforced to prevent signal distortion or overcrowding of the channel





## Why Are MPTI's Filters Important?

#### Communication and Data Transmission Systems

- Higher frequency enhances faster and error-free transmission
- Low insertion loss enables clearer, more reliable data transmission

Wide Range of Frequencies Available Electronic Warfare (EW) Systems

 High selectivity improves jamming, deception, and intelligence gathering

#### Best In-Class Selectivity

#### Radar

- High selectivity improves accuracy of radar measurements
- Reduced insertion loss improves radar detection of slower and smaller objects

#### World Class Insertion Loss

Low insertion loss, high frequency, low profile, highly selective filters in various product families (Crystal, Waveguide, Ceramic, LC, Cavity, Planar, Switched) allow customers to design superior products



## What Are Solutions?

Solutions come in a various forms, such as an Integrated Microwave Assembly (IMA) or as a Multi-Function Module (MFM), where MPTI acts as an extension of our customer's Engineering team and designs the complete solution rather than supplying only the components

- Our solutions typically integrate multiple microwave or and RF functions into a single package
- These functions can include amplifiers, oscillators, filters, mixers, switches, and other active or passive microwave components
- Solutions may also integrate power management, control circuitry, and other functionalities
- Common solution applications include radar systems, electronic warfare systems, communication systems, microwave instrumentation, and aerospace and defense applications





## Why Use MPTI to Provide Solutions?

- MPTI uses the same circuit, electromagnetic, mechanical, thermal, and stress analysis modeling tools as our customers, which is effortlessly integrated into the customer's system synthesis
- Design collaboration acts an extension of the customer's design team and allows our customer's resources to focus on their areas of expertise
- Utilizes several in-house rapid prototyping methods to speed development with a fast-fail approach
- The result of having MPTI focus on the design concept, prototype development, and transition to full rate production is a shortened design cycle and a faster time to market
- Custom integration offers additional benefits of enhanced system performance, fewer interfaces, compact mechanical packaging, less individual components, and reduced test and integration times







## **MPTI Overview**

#### MPTI is a NYSEAM publicly traded corporation

- Formed in 1965
- Listed NYSEAM in October 2022 at ~\$13; today at ~\$28
- Aerospace and Defense Focused Since 2004 Acquisition
- Value Creation Heritage with NYSEAM governance

#### **Current MPTI Profile**

- American Made Defense Contractor in High Growth Niche
- Specialist in Robust Engineering Frequency Control Applications
- 2.68mm Shares Outstanding
- \$80mm Market Cap (approximate)
- Broad employee ownership (183,000 options at \$36)
- Positioned to access long term value creation opportunities









## **MPTI Value Creation**

#### "MPTI" Delivered to Shareholders:

Separation at \$13 per share to \$43.41 high ~ \$115mm market cap (Jan 2024) SPIN OFF: October 7, 2022 (NYSEAM – MPTI)

Creating standalone Aerospace and Defense frequency control engineering pure play

MtronPTI's Significant Opportunity in the Defense Landscape













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## **MPTI Trading Statistics & Market Data**





Source: S&P Capital IQ, Company data (1) Market data as of May 6, 2024 (2) As of May 3, 2024

## **Outperformance vs. Peers**

Since its Spinoff in Late 2022, MPTI has Significantly Outperformed the Broader Market & its Peers





Source: S&P Capital IQ as of May 6, 2024 (1) Constituents of the S&P Global 1200 - Electronic Components index include: Amphenol (NYSE:APH), Corning (NYSE:GLW), Delta Electronics (TWSE:2308), Kyocera (TSE:6971), Murata Manufacturing (TSE:6981), OMRON (TSE:6645), Samsung SDI (KOSE:A006400), and TDK (TSE:6762)

## **MPTI At A Glance**

#### **Robust Engineered RF Components and Solutions since 1965**





Source: Company data (1) 12 months ended March 31, 2024 (2) Five year CAGR was 8.2% from 2017-2022 (3) Revenue from products introduced in the last 4 years

## MPTI At A Glance (Cont.)



#### **Vertically Integrated RF Solutions**

Highly-engineered, high reliability precision components and solutions including Filters, Oscillators, Resonators, and Integrated Microwave Assemblies with 900+ unique products



#### **Blue-Chip Customer Base**

Diverse global customer base of over 350+ unique customers including industry leaders in the Aerospace & Defense, Avionics, Space, and Industrials sectors



#### **Strong Market Performance**

Delivering strong returns to shareholders of 81% since spin-off on October 7, 2022, indicative of our unique strategy and strong execution



## A History Of Leadership & Innovation

For Over 58 Years, MPTI Has Been a Leader in Supporting Advanced Electronics





NYSE AMERICAN<sup>™</sup>

#### 1965

Mtron and Piezo Technology (PTI) are organized separately

#### 1976

Lynch Corporation (predecessor to The LGL Group) acquires Mtron

#### 2004

Mtron acquires PTI

#### 2020

MtronPTI launches Integrated Microwave Assembly (IMA)

#### 2022

MtronPTI completes separation from The LGL Group, becoming an independent, publicly traded company

#### 1973

PTI supplies the first monolithic filters used in space

#### 2002

Mtron purchases assets of Champion Technologies (formerly Motorola) adding VCXO, TCXO and timing solutions

#### 2017

MtronPTI introduces its first electronical vibration compensated OCXO

#### 2022

MtronPTI launches Planar Filter Product Line and High frequency, Iow noise OCXO family

#### 2024

MtronPTI launches its first space -borne IMA









#### **Global Footprint** Strategically Located With Capacity For Future Growth

#### Orlando, FL (HQ)

- 71,000 sq. ft.
- AS9100D Design and Manufacturing Facility
- ITAR Registered
- Sales Office

#### Yankton, SD

- 32,000 sq. ft.
- AS9100D Design and Manufacturing Facility
- ITAR Registered

#### New Delhi, India

- 13,000 sq. ft.
- ISO 9001:2015 Manufacturing Facility
- MLA Manufacturing License Agreement

#### Hong Kong

Sales Office

#### Over 100,000 sq. ft. of Design and Manufacturing Space





## **Investment Highlights**

2

3

4

5

Large & Growing TAM with Diverse End Markets

Unique Go-To-Market Strategy & Vertically Integrated Product Offerings

MtronPTI

Blue-Chip Customer Base on Long Running Programs and Sticky Contracts

**Compelling Financials with Organic & Inorganic Growth Strategy** 

**Proven & Experienced Management Team & Board** 



#### **Large & Growing TAM** Expansion Opportunities Across Multiple Markets





## Macro Trends Favorable to MPTI

Increased Network Communication Programs and Global Threats Drive A&D Spending





## **Serving Diverse & Attractive End Markets**

Secular Market Tailwinds With Established and Growing Customer Base

#### Aerospace & Defense

- High reliability harsh environment timing, spectrum and frequency control solutions
- Applications for Autonomous Vehicles, Drone and Missile Defense, Electronic Warfare, and Hypersonic Missiles



#### Avionics

- Harsh environment oscillators and leading-edge resonator technology products reduce temperature and vibration effects
- Global fleet increasing by 80% through 2041 compared to 2019



#### FY'23 Revenue Split by End Market



#### Space

- Communication, Defense GPS, and Weather Satellites and Manned Space Flight Exploration
- Internet access via satellite predicted to account for up to 70% of the space economy by 2050



#### Industrials

- Data timing and RF & microwave frequency control(s) solutions for industrial process control
- The global Industrial Internet of Things (IIoT) market is expected to grow at a CAGR of 23.3% from 2024-2030





## **Unique Product Portfolio...**

#### **Filters**

- Applications within Avionics, Communications, Electronic Warfare, Instrumentation, and Radar
- Products include Crystal, LC, Cavity, Planar, Waveguide, Ceramic, Duplexer, Multiplexer and Switched Filters
- Frequency ranges from 25MHz to 50GHz





#### **Oscillators**

- Applications within Avionics, Communications, Electronic Warfare, Instrumentation, and Radar
- Products include X0, TCX0, VCX0, TCVCX0, 0CX0
- Frequencies available: TCX0 to 1.4GHz, 0CX0 to 6 GHz



#### Resonators

- Applications within Avionics, Communications, Electronic Warfare, Instrumentation, and Radars
- Precision Crystal Resonator frequencies up to 200MHz
- Vertically integrated into crystal filters and oscillators



#### Integrated Microwave Assembly

 Spanning frequencies from 10MHz to 50GHz, components such as Filters, Low-Noise Amplifiers, Couplers, Attenuators, Switches, Circulators, Oscillators, Multipliers, Phase Lock Loops and Mixers, are integrated into one SWaP-C assembly



#### FY'23 Revenue Split by Product





## ...With Broad Applications



#### **Precision-Guided Munitions**







## Vertically Integrated Throughout Product Lifecycle

From Design to Delivery, MPTI focuses on Relationship Driven Business, Ensuring Premier Quality

#### 1. Design



- Thermal and electromagnetic modeling, extensive design of experiments, and rapid prototype evaluations ensure that designs are compliant, reliable and manufacturable
- MPTI Engineer to Customer Engineer interaction from concept thru production



#### **2. Quality**



- Raw materials such as machined housings, passive components, and platings are tested, ensuring industry / client specified needs
- In-house testing includes Gross/Fine Leak, Vibration, Shock, XRF, PIND, Life, Immersion, Humidity, Barometric Pressure, Temperature, and Extensive Electrical Parameters



#### 3. Manufacturing



 MPTI employs a continuous improvement approach to manufacturing, utilizing worldclass FOD Controls, Laser Weld, Seam Sealing, Laser Marking, Resistive Welding, Hi-Power RF Testing, Photolithography, Physical Vapor Deposition, Cold Weld Press, SMD Pick and Place, and J-STD-001 Space Level Soldering



#### 4. Sale / Delivery



- Global presence of 22 Sales Representative Organizations comprised of 70 sales representatives, 7 Inside Sales Support Members, and 5 Sales Engineers
- MPTI commits to satisfaction in every phase with a focus on longterm relationships with suppliers and customers





## **Blue-Chip Customer Base**

Tenured Industry Relationships With Premier Customers Across Various End Markets



More than 70 customers with a 10+ year history



## **New Product Development**

Increased R&D and Capex Spend Drive Organic Topline Growth in the Near-Term



#### Constant Innovation with Strategic Targeting of Larger Opportunities

- ~30% of FY'23 Revenue comes from products introduced since 2020
- New product development is a key component of strategy with ~225 new products released annually
- Number of products >\$500k annually increased ~50%
- Number of products >\$250k annually increased ~35%



## **Financial Summary**

Compelling Financials With Strong Topline Growth And Healthy Margins





Source: Company Financials. Note: LTM figures as of Q1 FY'24, ending March 31, 2024 (1) Adjustments to EBITDA include Non-Cash Stock Compensation and Excess Separation Costs

### FY'24 Outlook Well-Positioned for Continued Growth

FY'24E Guidance

\$43M - \$45M Revenue

**42% – 44%** Gross Margin

## **19% - 21%** Adjusted EBITDA Margin<sup>(1)</sup>





Source: Company guidance (1) Adjustments to EBITDA include Non-Cash Stock Compensation and Excess Separation Costs

## Multi-Pronged Strategy for Sustained Growth

MPTI's Strategy Positions the Company Towards Future Growth on Both an Organic and Inorganic Basis

#### **Strong Foundation Today** ...Driving Future Growth

58+ Year Legacy

Customers

> 350

Global Footprint

> 900**Unique Products** 

356 **Employees**  +81% **Returns Since** Spin-Off

**Positioned for Organic Growth** 

- Industry tailwinds with a backlog of \$46.1M as of Q1 FY'24
- Continuous product line expansion with ~30% of FY'23 Revenue generated from new products
- Long running relationships with over 70 customers with a 10+ year history

#### **Driving Efficiencies and Cost Reductions**

- Leverage India operation / ITAR registration
- Continued focus on key investments in both R&D and labor spend
- Strategically focused on larger opportunities with better margins



#### **Acquisition-Oriented**

- History of M&A with acquisitions of PTI, Trilithic, and Champion
- Focus on synergistic products, which increase MPTI's technical capabilities
- Ability to increase market share in multiple end markets with secular tailwinds



## Questions



## MtronPTI 2024 Conference Schedule

## **Thank You For Attending**

# We hope to see you at an upcoming event...

#### 26<sup>th</sup> Annual Needham Growth Conference

New York, New York January 16-19, 2024

#### MicroCap Conference

Atlantic City, NJ January 30-February 1, 2024

#### **MtronPTI Investor Day**

NYSE May 8, 2024

#### **Ideas Conference**

New York, New York June 12-13, 2024

#### Sidoti MicroCap Conf.

Virtual August 14-15, 2024



# Appendix



## Management Team & Board

Tenured Management Team And Board Provides MPTI With Decades of Experience and Leadership

#### Senior Management Team

| Michael J. Ferrantino   |
|-------------------------|
| Chief Executive Officer |
| BOARD MEMBER            |
|                         |

Linda Biles Executive Vice President, Finance

| William Drafts |  |
|----------------|--|
| President      |  |

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#### **Non-Executive Board Members**

| Bel Lazar<br>Chairman<br>COO and Board Membe<br>Efficient Power Conve<br>CEO of EPC Space | er<br>ersion  | Marc Gabelli<br>Ex-Chairman of the E<br>Chief Executive Offic<br>Gabelli Securities Inte<br>Ltd | <b>Board</b><br>Ser<br>ernational   | Hendi Susanto<br>Director<br>VP of Equity Research<br>Gabelli |   | Robert LaPenta Jr.<br>Director<br>Managing Partner<br>Aston Capital |
|---|---|---|---|---|---|---|
| Technologies  | John Mega<br>Director<br>Former SVP and Preside<br>L3's Communication Sys | GAMCO<br>ADDET HANAGEHENT<br>ent<br>stems   | David Goldman<br>Director<br>General Counsel<br>GAMCO Asset Management, Inc | Arteaga<br>Copited Comegonium                                 | Ivan Arteaga<br>Director<br>Chief Investment Office<br>Arteaga Capital Manage | er<br>ement   |



## **Product Applications: Commercial Aerospace**

#### Platform Flexibility with Multiple Touchpoints

- ~16 design slots on nearly every Boeing and Airbus commercial airplane
- Provides rugged, proven, reliable oscillators, clocks, and filters in numerous applications, from flight control to navigation
- Serves multiple end-markets including smaller regional and business jet markets





## **Product Applications: Space & SATCOM**

#### Designed to Withstand Harsh Environments

- Over 80 design wins on satellite platforms and manned spacecrafts
- DoD is increasing funding in areas of space situational awareness: Missile Warning & Tracking, Protected Tactical Secure SATCOM Communications, and the Global Positioning System
- Several design slots across three product lines supporting ground-based SATCOM receivers, with thousands of receivers per satellite





## **Product Applications: Electronic Warfare**

#### High Reliability Timing, Spectrum & Frequency Control

- Current Electronic Warfare systems face the challenge of operating in a more congested RF environment, requiring rugged and precise devices and solutions
- The DoD requested \$842B in its FY'24 budget to support hundreds of Electronic Warfare programs, all of which can utilize MPTI's precise resonators, clocks, oscillators, and filters

#### Path to Antenna





## **Product Applications: Precision-Guided Munitions**

Pinpoint Missile Accuracy with Superior Electronic Technology

- Defense agencies are focusing on highperformance, precision strike weapons that have farther standoff, multi-mode seekers, robust guidance systems, and less time for target selection with less collateral damage
- MPTI has several design wins for clocks, oscillators, and filters within various Missile Defense Programs





## **Product Applications: Radar**



- Hypersonic missiles and drones require highly advanced radars which drive the need for high-performing filters and oscillators
- Both commercial and military aircraft utilize MPTI components on their onboard radars





## **Detailed Income Statement Summary**

Healthy Topline Growth Alongside Meaningful Backlog And Margin Expansion

#### FY'23 Commentary

- Revenue: Increased 29.3%, reflecting strong aerospace and defense product shipments
- **Gross Margin:** Margins expanded from increased business volume, improved efficiencies and the effects of product mix changes
- Operating Expenses: Increased due to a one-time stock-option grant of \$2.0M, while engineering costs increased marginally from increased investments in R&D
- Backlog: Increased 3.6% to \$47.8M, driven by strong growth in aerospace and defense orders, most of which are expected to ship during FY'24 and into FY'25

| \$ in Millions                        | FY'20'A | FY'21A  | FY'22A | FY'23A  |
|---------------------------------------|---------|---------|--------|---------|
| Revenue By Product                    |         |         |        |         |
| Filter                                | \$17.7  | \$13.3  | \$15.3 | \$25.7  |
| OCXO                                  | 2.1     | 3.5     | 3.5    | 2.1     |
| TCXO                                  | 2.0     | 2.3     | 2.4    | 2.5     |
| Oscillator/Resonator                  | 4.8     | 4.6     | 5.8    | 6.2     |
| Purchased Product                     | 3.0     | 2.1     | 3.9    | 3.6     |
| Engineering Services                  | 0.4     | 0.9     | 0.4    | 0.7     |
| Integrated Modules                    | 0.0     | 0.0     | 0.6    | 0.3     |
| Total Revenue                         | \$30.0  | \$26.7  | \$31.8 | \$41.2  |
| YoY Growth                            | (1.9%)  | (11.0%) | 19.3%  | 29.3%   |
| Manufacturing Cost of Sales           | \$19.7  | \$17.4  | \$20.5 | \$24.4  |
| Gross Profit                          | \$10.3  | \$9.3   | \$11.3 | \$16.8  |
| Margin                                | 34.3%   | 35.0%   | 35.6%  | 40.7%   |
| Engineering, Selling & Administrative | \$7.3   | \$7.2   | \$8.5  | \$12.5  |
| Operating Income                      | \$3.0   | \$2.1   | \$2.9  | \$4.3   |
| Margin                                | 10.1%   | 7.9%    | 9.0%   | 10.4%   |
| Interest Expense (Income), net        | \$0.1   | \$0.0   | \$0.0  | (\$0.0) |
| Other Expense (Income), net           | 0.1     | (0.0)   | 0.3    | (0.1)   |
| Pre-Tax Income                        | \$2.9   | \$2.1   | \$2.6  | \$4.4   |
| Income Tax Provision                  | \$0.6   | \$0.5   | \$0.8  | \$0.9   |
| Net Income                            | \$2.3   | \$1.6   | \$1.8  | \$3.5   |
| Margin                                | 7.7%    | 5.9%    | 5.6%   | 8.5%    |
| EBITDA Bridge                         |         |         |        |         |
| Pre-Tax Income                        | \$2.9   | \$2.1   | \$2.6  | \$4.4   |
| (+)Interest (Income) Expense, net     | 0.1     | 0.0     | 0.0    | (0.0)   |
| (+) Depreciation & Amortization       | 1.0     | 0.5     | 0.7    | 0.9     |
| EBITDA                                | \$4.0   | \$2.7   | \$3.3  | \$5.2   |
| Margin                                | 13.2%   | 10.0%   | 10.5%  | 12.7%   |
| (+) Non-Cash Stock Compensation       | \$0.1   | \$0.3   | \$0.5  | \$2.4   |
| (+) Excess Separation Costs           | 0.0     | 0.0     | 0.2    | 0.0     |
| Adjusted EBITDA                       | \$4.1   | \$3.0   | \$4.0  | \$7.7   |
| Margin                                | 13.7%   | 11.1%   | 12.6%  | 18.7%   |

