

# Defining the **POSSIBILITIES**

MCL, Inc. a MITEQ company is a leading manufacturer of Klystron including Traveling Wave Tube amplifiers and redundant systems for use in a variety of satellite uplink and other microwave applications. Founded in 1961, MCL has spent the last 40 years developing high quality products to meet the needs of the market place.

In May 2000, MCL was acquired by MITEQ, Inc., of Hauppauge, New York. MITEQ designs and manufactures a complete line of high-performance microwave components and satellite communication products. Together with MITEQ, MCL has been able to accelerate new product development, enhance quality customer service, and increase our capabilities in the growing communications market.

## STANDARD PRODUCT LINE

- Satellite Communication Amplifiers (TWT and Klystron)  
**MT3200** Medium Power TWTA  
**MT3500** Medium Power Antenna Mount TWTA  
**MT5000** High Power TWTA  
**MT7000** High Power TWTA  
**MX9000** High Power KPA
- Redundant and Phase Combined Systems (custom configurations available upon request)
- Satellite News Gathering (SNG) Transportable Amplifiers
- Military Application Satellite Communication Amplifiers

Amplifiers are offered in S, C, X, Ku, DBS and Ka bands with RF power output levels from less than 100 watts to more than 3,000 watts. MCL's catalog offers a comprehensive line of products, which include high power amplifiers and instrumentation type TWTAs and Klystron amplifiers.

## FACILITY

MCL operates from a modern, two-story building located in Bolingbrook, Illinois, just 40 miles (64 km) southwest of downtown Chicago. The facility occupies 124,000 square feet, of which 80,000 is used for the designing, manufacturing, testing and servicing of all types of high power amplifiers. MCL is equipped with state-of-the-art microwave and RF test equipment, modern assembly facilities, and a machine/fabrication shop. The company provides each employee with the space, resources and tools needed to continually provide the support that our customers expect and deserve.



## ENGINEERING

MCL's innovative product designs begin with our commitment to R & D and ongoing engineering. Of the 130 employees at MCL, 25% are experienced mechanical, electrical and application engineers. They work closely with sales, production and our service department, as well as our customers, in order to develop products that fulfill the needs of the end user.

## QUALITY ASSURANCE

At MCL, Quality Control is a function that occurs at all stages of product development and manufacturing. From incoming inspection of parts and materials to packing for shipment, MCL ensures that quality checks are completed throughout the manufacturing process. Additionally, each amplifier undergoes up to 20 production and quality tests before it leaves our facility. Our Quality Control program ensures that our customers receive amplifiers that are unsurpassed in quality and reliability. MCL is currently qualified to MIL-I-45208 and has been certified to ISO 9001 since July 1994.

## CUSTOMER SERVICE

MCL is well aware that our job does not end when the equipment leaves our facility. We are committed to providing customers with the highest levels of service and support in the industry. Our staff of service engineers is available to ensure a smooth installation of your amplifier system. For post-installation support, our facility is equipped with the best space, resources and tools to facilitate organized and efficient execution of all in-house service. MCL also offers on-site service, and we strive for 24-hour parts replacement, whether your product is under warranty or not. Additionally, you can reach a technical support service professional 24-hours a day 7 days a week by simply dialing (630) 759-9500.

## WORLDWIDE SALES AND SERVICE

MCL has an extensive international network of authorized technical support centers and sales representatives located worldwide that are committed to providing you with the same level of support that you would receive if you were next door.

## MISSION STATEMENT

*To be the premier worldwide satellite communication high power amplifier and solid state provider through product innovation, total product quality, strategic industry partnerships and dedication to the wellness of the MCL teammates.*

For additional information or technical assistance, please contact an MCL Sales Representative at (630) 759-9500.



# INNOVATIVE AMPLIFIER SOLUTIONS



MT7000



MT3500



MT5000



MT3200



MX9000

## POWER AMPLIFIERS KLYSTRON TWT

