MITEQ

Supporting the Customer's High-Performance Engineering Needs

MITEQ is a company that designs and manufactures a complete line of high-performance components and subsystems for the microwave electronics community. MITEZ, an acronym which stands for (M)icrowave (I)nformation (T)ransmission (EQ)uipment, has been located on Long Island, New York for more than thirty years. During this time, it has grown into a multi-million dollar company employing over 475 people who are dedicated to achieving technical excellence, producing quality products, and satisfying our customer's needs.

Standard Product Lines
MITEQ'a product lines are basically split between two market segments:
Microwave components and integrated assemblies
Satellite communications & earth station equipment

The Microwave Component Division offers designs up to and over 60 GHz, including:
&#149**Amplifiers:** Moderate to broadband ultra low-noise to medium-power, bipolar, and GaAs FET designs
&#149**Mixers:** Single-double-, and triple-balanced, MESFET and Schottky mixers and low-noise receiver front ends
&#149**Frequency multipliers**
&#149**Microwave control products:** Solid-state switches, attenuators, and power dividers
&#149**RF and IF signal processing components**
&#149**Oscillators:** Crystal, voltage, cavity tuned, free-running, and phase-locked
&#149**Frequency synthesizers**
&#149**Integrated multifunction assemblies**

MITEQ's Satellite Communication and Earth Station Equipment Groups manufacture the following:
&#149Up/downconverters
&#149Test translators
&#149IF/video equalizers
&#149Redundancy switchover units
&#149Video modulators and modems

Specific products include synthesized converters with 1.0 kHz and 125 kHz frequency step sizes, INMARSAT L-and C-band converters, pilot generators and receivers, crystal controlled converters, video exciters, and custom designed products.

Custom Design Capabilities
Although MITEQ offers one of the broadest lines of standard catalog items, the bulk of MITEQ's business is in customized components, assemblies, and systems designed specifically around the customer's needs.
MITEQ's heavy emphasis on internal R&D throughout its history has lead to the creation of a company with the ability to adapt quickly to the changing needs of the customer and market while at the same time offering competitive prices and fast turnaround times.

Applications
MITEQ's components and systems are supplied to a wide variety of military and commercial markets including:

&#149Satellite and ground-based communication systems
&#149Missile guidance
&#149Military electronic countermeasures, radar warning and surveillance systems
&#149Land, sea, and airborne radar
&#149Air traffic control radar &#149Radioastronomy &#149Research and development efforts

Manufacturing and Design Capabilities
MITEQ's state-of-the-art facilities consist of three adjacent buildings totaling 198,000 square feet. In addition to housing fifteen separate engineering and manufacturing groups, MITEQ prides itself on its support groups including: drafting, which uses the latest commercial CADD and proprietary software programs; and an extensive machine shop, which includes seven top-of-the-line numerically-controlled Okuma, Mitsui Seiki and Matsuura vertical machining centers capable of machining to the tightest of tolerances, guaranteeing repeated accuracy and reliability. MITEQ maintains three Class 100,000 and two Class 10,000 cleanrooms in support of high reliability space and military applications.
To accomplish the engineering, manufacturing and testing of MITEQ's components and assemblies, MITEQ invests heavily in capital equipment. This state-of-the-art equipment includes a wide array of vector network analyzers and synthesized sources, phase noise test sets, custom noise figure measuring equipment, glass furnace equipment to control the process of glass sealing, thermal/humidity chambers, and PIND and shock and vibration stations for environmental screening, to name a few.

Quality Assurance
MITEQ is recognized as a world class supplier with an outstanding reputation for product quality. MITEQ has undergone the extensive **ISO-9001** certification process to help secure its future as a primary source for advanced microwave products.

Space Heritage
MITEQ's continued advancements in this state-of-the-art and unique capability have led to the wide acceptance by the microwave community as a forerunner space-borne technology. Our space-qualified components include mixers, amplifiers, synthesizers, and super-components. MITEQ's Space-Qualified Quality Assurance

Plan establishes the actions necessary to provide confidence that the end item will meet the quality, reliability and electrical performance required for space-qualified applications. Recent space platforms include:

&#149 AMSUB &#149 SSMIS &#149 GEOSAT &#149 SEAWINDS &#149 P97 &#149 SEASAT &#149 SPINSAT &#149 TOPEX

Customer Service
MITEQ continually evaluates its service procedures to ensure that a close relationship is maintained between the company and its customers. The goal in every case is to deliver products of exceptional quality, backed by responsive technical and administrative support. MITEQ remains committed to offering comprehensive technical support to its customers through a direct customer-to-MITEQ engineering link. This enables a quick response to the customer's needs, and ensures receipt of exactly what the customer requires: Delivery of cost-effective solutions for the most demanding applications.

MITEQ
100 Davids Drive
Hauppauge, NY 11788
Telephone: (631) 436-7400
Fax: (631) 436-7430
www.miteq.com.

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