

ABOUT US

DiTom Microwave designs and manufactures high quality ferrite isolators and circulators for the Space and Defense markets. We are an AS9100 Rev. C certified U.S. manufacturing company located in Fresno, California. Our business was established in 1987 and since the inception of DiTom we have shipped over 250,000 ferrite devices to customers all around the world.

Our goal at DiTom is to provide exceptionally high quality ferrite products to our customers that are cost-effective, ahead of the critical delivery schedule, and without any issues. We pride ourselves on quality, customer service, and on-time deliveries.



HERITAGE

DiTom Microwave's proven rugged and reliable connectorized ferrite isolators and circulators are on multiple Defense and Space Programs. Our hardware can be found on UAV's, EW Aircraft, SIGINT/ELINT Platforms, Tactical Data Links, Ground Terminal Systems, Shipboard and Helicopter Platforms, and Satellite Communication Systems.

Below is a short list of programs DiTom Microwave has supported over the recent years:

<u>Program Name</u>	<u>Hardware Supplied</u>
Wideband Global Satcom WGS Program	150 + Thermal Vacuum Qualified Isolators X and Ka band
Express AM5 and Express AM6	130 + Thermal Vacuum Qualified Isolators L, C, Ku, and Ka bands
SICRAL2 and KAZSAT3	180 + Thermal Vacuum Qualified Isolators S, C, X, and Ku bands
Modernization of Enterprise Terminals MET Program	400 + MIL Qualified Isolators L and Ka band
Warfighter Information Network – Tactical WIN-T Program	250+ MIL Qualified Isolators X, Ku, and Ka bands
E2D Advanced Hawkeye	150 + MIL-AERO Qualified Isolators Classified bands

HIGH RELIABILITY MANUFACTURING

Manufacturing isolators and circulators with stringent electrical and environmental specifications has become a major part of our business. We are proud to have a flawless **100% OTD** and **0% RMA** track record for all Hi-Rel orders to date.

DiTom has processes in place for the tests described in the following table and will work with you to draft, perform, and report data from any custom High Reliability test profile requirement you have.

<u>Test Type</u>	<u>Testing Capabilities</u>	<u>Applicable Standards</u>
Operational/Non-Operational Thermal Cycling	Tenney T5STR Environmental Chamber Temp Range: -70C to +177C	Customer Specification
Operational/Non-Operational Humidity Testing	Tenney T5STR Environmental Chamber Humidity Range: >95% RH	RTCA DO-160D, Section 6.3.1 Customer Specification
Operational/Non-Operational Altitude Testing	Tenney T5STR Environmental Chamber Altitude Range: 0 - 100kft	MIL-STD-202, Method 105 Customer Specification
Operational/Non-Operational Mechanical Random & Sine Vibration Testing	LDS V-830 Electrodynamic Shaker Peak Random Force: 1300 lbf Peak Random Acceleration: 75g Peak Sine Force: 2000 lbf Peak Sine Acceleration: 120g	Customer Specification
Operational/Non-Operational Mechanical Shock Testing	LDS V-830 Electrodynamic Shaker Peak Bump Force: 3900 lbf	MIL-STD-810, Method 516 Customer Specification
Operational/Non-Operational Thermal Vacuum Testing	LACO Technologies Customer TVAC Peak Vacuum: 4 x 10E-6 torr Temperature Range: -50C to +200C	Customer Specification
RF Leakage Testing	Anritsu Signal Generator & Spectrum Analyzer Frequency Range: 250 MHz to 40 GHz Leakage Detection Range: Less than -110 dBi	Customer Specification

SPACE QUALIFIED ISOLATORS AND CIRCULATORS

DiTom Microwave's Hi-Rel and Space Qualified isolators and circulators are ideal for IMUX applications.

UHF to Ka band designs	Low Insertion loss
Typical Return Loss > 20 dB	Typical Isolation > 20 dB
High Power Options Available	Coaxial Connectors
Excellent Flatness	Wide operating Temperature Range

Custom designs are available where specific applications require higher isolation, lower insertion loss, improved VSWR, non-standard frequency bands, higher power handling (both peak and average), wider temperature ranges, stringent environmental conditions, specialized package sizes, or any combination of the above.