



**DORADO**  
INTERNATIONAL



# Company Overview

## About Us

- Founded in 1996, 21 years in business
- Focus on RF/Microwave solutions for telecom, public safety, aerospace and military applications
- Total employee 300+, located in North America, Europe and Asia
- 3 fully owned manufacturing facilities, located in US, China and Russia
- 3 Joint ventures located in China
- JQL Aquired Dorado International 2017
- Dorado Millimeterwave Ltd Started in UK 2018
- World wide sales and technical support network in over 32 countries
- 2017 revenue: \$16.9 million
- 2018 estimated revenue: \$18 million



# Company Overview

## R&D and Manufacturing Sites



**Dorado**  
*Millimeterwave Ltd*

**Berkshire UK**

Isolator  
Circulator  
Filter  
Waveguide  
Coupler  
Millimeter Wave  
R&D



**Rolling Meadows, USA**

Isolator  
Circulator  
Filter  
MEMS  
MMIC  
Millimeter Wave  
R&D



**Shanghai, China**

Isolator  
Circulator  
Filter  
Waveguide  
Coupler  
PCBA  
CM Service  
R&D



**St. Petersburg, Russia**

Microstrip Device  
Filter  
Millimeter Wave  
Component  
Waveguide  
MMIC  
R&D

## Joint Venture Sites

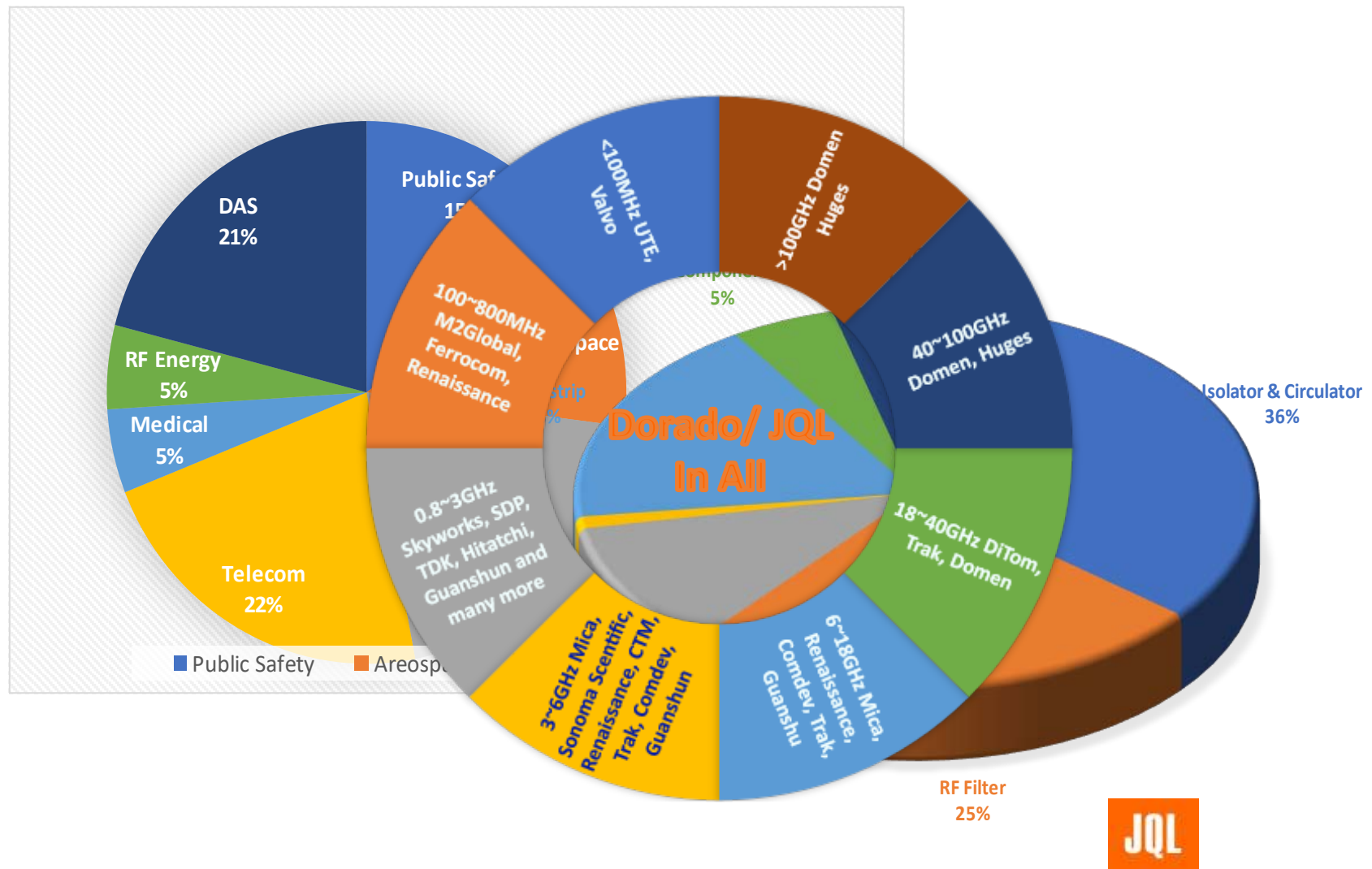
*Noot Surface Treatment  
Technology Co. Ltd  
(30%) Leased & Licensed*

*Ferrocom Advanced  
Material Co. Ltd (65%)*

*JQL Precision  
Manufacturing Co. Ltd  
(55%)*



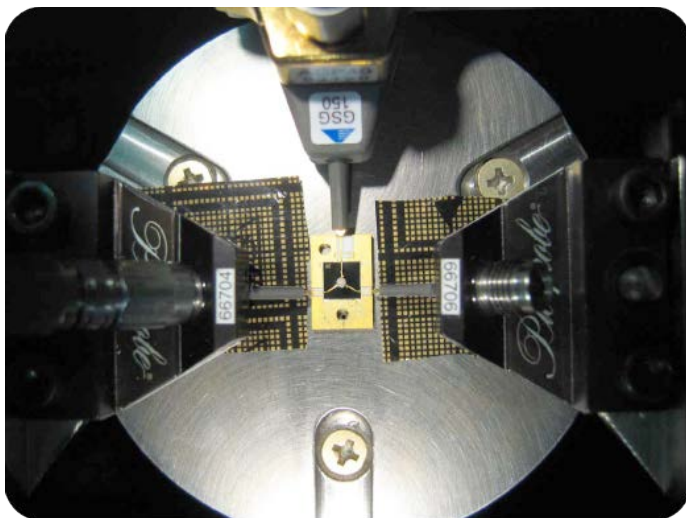
# Strong Technical Offering



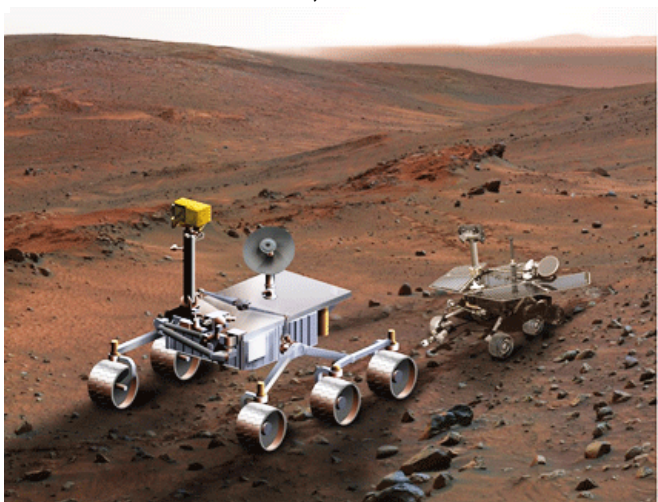


# Dorado Engineering Capability

## Engineering Capability-Space Qualified MMIC Design



Michael Ciminera, rev. 4/5/2007 :: 1839



### Space Technology on Mars

Mars Exploration Project  
TR Module MIC / MMIC Technology Details

Designed for JPL: MARS 2012 AND MARS 2020

#### 1.Space qualified microstrip and Drop-In circulators and isolators (USA)

Frequency Range from 0.9GHz to 36GHz  
2006, 2007, 2008, 2009, 2011, 2013

#### 2.Space qualified microstrip isolators (Japan)

Frequency Range from 5GHz to 20GHz  
2008

#### 3.Space qualified microstrip isolators (Russia)

Frequency Range from 9GHz to 30GHz  
2010-2015

#### 4.Modules for Institute of Applied Astronomy RAS of Russian Academy of Sciences

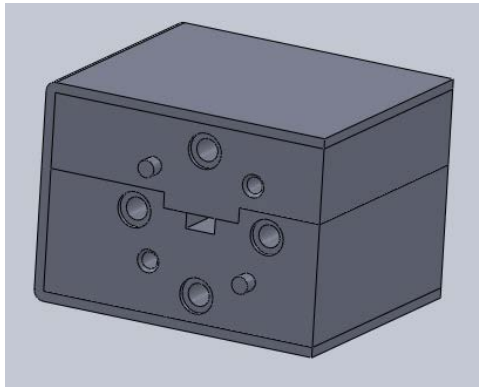
2009-2015

#### 5.Space qualified microstrip isolators for (Sweden)

Frequency 29GHz  
2013-2015

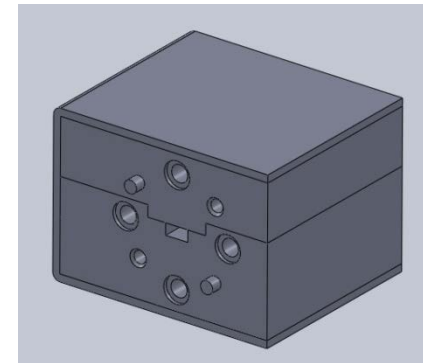
# Dorado Millimeterwave

## E & W Band Waveguide Isolators



SPECIFICATIONS	
Part's Number	JIWR12-25.4-71K0T76K0
Frequency(GHz)	71.000~76.000
Direction	
Insertion Loss(dB)MAX	1.0
Isolation(dB)MIN	15.0
Return Loss(dB)MIN	14.0
3rd IMD(dBc)MAX	-
Power FWD/REV/PK(Watt)	
Operating Temperature(°C)	-40~+85

SPECIFICATIONS	
Part's Number	JIWR12-25.4-81K0T86K0
Frequency(GHz)	81.000~86.000
Direction	
Insertion Loss(dB)MAX	1.0
Isolation(dB)MIN	15.0
Return Loss(dB)MIN	14.0
3rd IMD(dBc)MAX	-
Power FWD/REV/PK(Watt)	
Operating Temperature(°C)	-40~+85



**71-76GHz (Space to Earth)** - low loss WG isolators for LNA/LNB blocks (low power)

**81-86GHz (Earth to Space)** - WG isolators with higher power 5/10W and more

