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CII High Reliability Space Relays ........................................ 4-2, 4-3
Product Testing

Tyco Electronics

CII High Reliability
Space Relay
products begin
as relays manufac-
tured to MIL-Spec
requirements. They
then receive additional
processing and
testing to particu-
lar customer
specifications.

All operations and processes
are documented as
required by MIL-STD-790.
Each operation and process
has an accompanying route
sheet that allows tracking
of all materials and
processes associated with
an order. For those who
require additional informa-
tion, we can serialize, track
and document the data for
individual relays.

In addition to quality audits
throughout the manu-
facturing
process, our High
Reliability
Space relays are
test to assure that your
High Reliability standards
and requirements are met
or exceeded.

Our High Reliability Space
Relay products are tested
100% for Group A parame-
ters and then subjected to
additional testing including:
PIND, Small Particle
Cleaning, Random,
Vibration, and X-Ray. Group
B and C testing is done
for lot integrity based on
MIL-R-39016. These test
profiles are tailored to your
individual requirements.

Destructive testing is often
performed, based on the
actual application of the
device. On a “standard”
QPL relay, this testing is
performed periodically, and
performance is assumed for
the period of manufacture.

Clean Room

All of our High Reliability
Space Relay products are
manufactured in a tempera-
ture and humidity controlled
environment utilizing a clean
room area for sub-assem-
blas. All final assembly,
intermediate testing, small
particle cleaning, pre-cap
inspection, and sealing is
performed in an integrated,
Class 1000 clean room that
is temperature and humidity
controlled in accordance
with Federal Standard 209E.
Temperature, humidity and
air particle counts are moni-
tored for precise control to
ensure the integrity of the
internal relay environment.

In the High Reliability Space
Relay, this performance is
proven for each relay lot
based on the testing and
documentation of each
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CII High Reliability Space Relays (Continued)

Products
- **Half Size Non-Latching**
  Available in 2, 4 and 6 Form C configurations, low level to 5 amp switching.
- **Half Size Latching**
  Available in 2 and 4 Form C configurations, low level to 2 amp switching.
- **One Fifth Non-Latching**
  2 Form C, low level 2 amp switching.
- **TO-5/.100 Grid**
  Available in 2 Form C, round and square outlines, low level to 1 amp switching, military qualified, optional spreader and mounting pads, ground pins, internal diodes, transistors, and hybrid assemblies.

Services
Our engineering staff, with over 100 years of combined experience in aerospace and High Reliability mil-spec relays, will help you find the right product for your needs. Our High Reliability Space Relays Department experts are cross-trained within their respective cells to achieve maximum quality and consistency. In addition, team and SPC training utilizing ISO 9000 concepts is given regularly.

Applications
- **Space satellites (telecommunications)**
- **Weather tracking**
- **Surveillance**
- **Infrared observation instrumentation**
- **Missile systems**
- **Torpedo guidance circuits**

CII High Reliability Space Relays customers include ITT’s HIRS/3 and AVHRR/3 instruments designed for the Polar Orbiting Environmental Satellite (POES) and McDonnell Douglas’s Delta Launch II and III Vehicles.