

**QUALIFIED
PARTS LIST
DIRECTORY**

PARTS, PACKAGING, AND ASSEMBLY TECHNOLOGIES OFFICE
CODE 562
NASA/GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND 20771-0001

TABLE OF CONTENTS

1.0	STATEMENT OF PURPOSE	1
2.0	PREPARING ACTIVITY.....	1
3.0	RETENTION OF QUALIFICATION.....	1
4.0	WAIVERS.....	1
5.0	PARTS LISTING.....	1
5.1	CONNECTORS - FSC 5935.....	2
5.2	RELAYS - FSC 5945.....	24
5.3	RESISTORS - FSC 5905.....	27
5.4	THERMISTORS - FSC 5905.....	29
5.5	THERMOFOIL HEATERS - FSC 5905.....	31
5.6	THERMOSTATS - FSC 5905.....	32
6.0	MANUFACTURERS LISTING.....	33

REVISION HISTORY		
Date	Revision Notice	Originator
03/06/09	A-153	Javad Shockri

1.0 PURPOSE

Goddard Space Flight Center (GSFC) has prepared this Qualified Parts List Directory (QPLD) for procurement of products governed by the NASA/GSFC specifications cited herein. These specifications are prepared whenever an acceptable part for space cannot be procured to military or other government-controlled specifications. Listing of products in this QPLD is contingent on satisfying the qualification requirements in the latest issue of the applicable GSFC procurement specification.

Listing of a product is not intended to and does not connote endorsement of the product by NASA. This list is subject to change without notice; revision or amendment of this list will be made as necessary. The listing of a product does not release the supplier from compliance with the specification's requirements.

2.0 PREPARING ACTIVITY

The Qualified Parts List Directory (QPLD) is prepared by:

Parts, Packaging, and Assembly Technologies Office
Code 562
NASA/Goddard Space Flight Center
Greenbelt, MD 20771-0001

Administrator: Javad Shockri
Telephone: 301-286-4042
Fax: 301-286-9778
E-Mail: javad.shockri-1@nasa.gov

3.0 RETENTION OF QUALIFICATION

Continued listing of products in this QPLD is contingent upon satisfying the retention of qualification requirements as specified in the applicable GSFC procurement specification.

4.0 WAIVERS

When there are no available products listed against any NASA/GSFC specification in the QPLD, the qualification requirements of the specification may be waived only by NASA/GSFC. When qualification is waived, the procuring agency shall invoke first article inspection that shall consist of performing all qualification tests in the applicable GSFC procurement specification. A copy of the test data shall be forwarded to the QPLD Administrator as consideration for future listing in this QPLD.

5.0 PARTS LISTING

Parts are listed by commodity type, NASA/GSFC Part Number, Manufacturer's Part Number, NASA/GSFC Specification, Test Plan Reference Number, and Manufacturer's Name. Details concerning Manufacturers (Addresses, Telephone Numbers, and Commercial and Government Entity (CAGE) Codes) are listed in Section 6.0 of the QPLD. Contact the QPLD Administrator for recommended Manufacturer points of contact.

5.1 CONNECTORS

GSFC S-311-P-10 , Connector, Electrical, Rectangular, Miniature, Polarized Shell, Rack and Panel, For Space Flight Use			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P10-1P-B-12	DEM-9P-NMB-77	QRN 94008	ITT CANNON
311P10-1P-B-12	SND9M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-1P-B-15	DEM-9P-NMB-76	QRN 94008	ITT CANNON
311P10-1P-B-15	SND9M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-1P-C-12	DEM-9P-NMC-77	QRN 94008	ITT CANNON
311P10-1P-C-12	SND9M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-1P-C-15	DEM-9P-NMC-76	QRN 94008	ITT CANNON
311P10-1P-C-15	SND9M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311p10-1S-B-12	DEM-9S-NMB-77	QRN 94008	ITT CANNON
311P10-1S-B-12	SND9F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-1S-B-15	DEM-9S-NMB-76	QRN 94008	ITT CANNON
311P10-1S-B-15	SND9F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-1S-C-12	DEM-9S-NMC-77	QRN 94008	ITT CANNON
311P10-1S-C-12	SND9F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-1S-C-15	DEM-9S-NMC-76	QRN 94008	ITT CANNON
311P10-1S-C-15	SND9F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-2P-B-12	SND15M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-2P-B-15	DAM-15P-NMB-76	QRN 94008	ITT CANNON
311P10-2P-B-15	SND15M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-2P-C-12	DAM-15P-NMC-77	QRN 94008	ITT CANNON
311P10-2P-C-12	SND15M2000G-182.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-2P-C-15	DAM-15P-NMC-76	QRN 94008	ITT CANNON
311P10-2S-B-12	DAM-15S-NMB-77	QRN 94008	ITT CANNON
311P10-2S-B-12	SND 15F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-2S-B-15	DAM-15S-NMB-76	QRN 94008	ITT CANNON
311P10-2S-B-15	SND15F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-2S-C-12	DAM-15S-NMC-77	QRN 94008	ITT CANNON
311P10-2S-C-12	SND15F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-2S-C-12	SND15M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-2S-C-15	DAM-15S-NMC-76	QRN 94008	ITT CANNON
311P10-2S-C-15	SND15F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-3P-B-12	DBM-25P-NMB-77	QRN 94008	ITT CANNON
311P10-3P-B-12	SND25M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-3P-B-15	DBM-25P-NMB-76	QRN 94008	ITT CANNON
311P10-3P-B-15	SND25M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES

GSFC [S-311-P-10](#), Connector, Electrical, Rectangular, Miniature, Polarized Shell, Rack and Panel, For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P10-3P-C-12	DBM-25P-NMC-77	QRN 94008	ITT CANNON
311P10-3P-C-12	SND25M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-3P-C-15	DBM-25P-NMC-76	QRN 94008	ITT CANNON
311P10-3P-C-15	SND25M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-3S-B-12	DBM-25S-NMB-77	QRN 94008	ITT CANNON
311P10-3S-B-12	SND25F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-3S-B-15	DBM-25S-NMB-76	QRN 94008	ITT CANNON
311P10-3S-B-15	SND25F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-3S-C-12	DBM-26S-NMC-77	QRN 94008	ITT CANNON
311P10-3S-C-12	SND25F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-3S-C-15	DBM-25S-NMC-76	QRN 94008	ITT CANNON
311P10-3S-C-15	SND25F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-4P-B-12	DCM-37P-NMB-77	QRN 94008	ITT CANNON
311P10-4P-B-12	SND37M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-4P-B-15	DCM-37P-NMB-76	QRN 94008	ITT CANNON
311P10-4P-B-15	SND37M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-4P-C-12	DCM-37P-NMC-77	QRN 94008	ITT CANNON
311P10-4P-C-12	SND37M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-4P-C-15	DCM-37P-NMC-76	QRN 94008	ITT CANNON
311P10-4P-C-15	SND37M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-4S-B-12	DCM-37S-NMB-77	QRN 94008	ITT CANNON
311P10-4S-B-12	SND37F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-4S-B-15	DCM-37S-NMB-76	QRN 94008	ITT CANNON
311P10-4S-B-15	SND37F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-4S-C-12	DCM-37S-NMC-77	QRN 94008	ITT CANNON
311P10-4S-C-12	SND37M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-4S-C-15	DCM-37S-NMC-76	QRN 94008	ITT CANNON
311P10-4S-C-15	SND37F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-5P-B-12	DDM-50P-NMB-77	QRN 94008	ITT CANNON
311P10-5P-B-12	SND50M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-5P-B-15	DDM-50P-NMB-76	QRN 94008	ITT CANNON
311P10-5P-B-15	SND50M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-5P-C-12	DDM-50P-NMC-77	QRN 94008	ITT CANNON
311P10-5P-C-12	SND50M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-5P-C-15	DDM-50P-NMC-76	QRN 94008	ITT CANNON
311P10-5P-C-15	SND50M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-5S-B-12	DDM-50S-NMB-77	QRN 94008	ITT CANNON
311P10-5S-B-12	SND50F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES

GSFC [S-311-P-10](#), Connector, Electrical, Rectangular, Miniature, Polarized Shell, Rack and Panel, For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P10-5S-B-15	DDM-50S-NMB-76	QRN 94008	ITT CANNON
311P10-5S-B-15	SND50F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-5S-C-12	DDM-50S-NMC-77	QRN 94008	ITT CANNON
311P10-5S-C-12	SND50F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-5S-C-15	DDM-50S-NMC-76	QRN 94008	ITT CANNON
311P10-5S-C-15	SND50F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-6P-B-12	DEM-5W1P-NMB-77	QRN 94008	ITT CANNON
311P10-6P-B-12	SCBM5W1M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-6P-B-15	DEM-5W1P-NMB-76	QRN 94008	ITT CANNON
311P10-6P-B-15	SCBM5W1M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-6P-C-12	DEM-5W1P-NMC-77	QRN 94008	ITT CANNON
311P10-6P-C-12	SCBM5W1M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-6P-C-15	DEM-5W1P-NMC-76	QRN 94008	ITT CANNON
311P10-6P-C-15	SCBM5W1M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-6S-B-12	DEM-5W1S-NMB-77	QRN 94008	ITT CANNON
311P10-6S-B-12	SCBM5W1F200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-6S-B-15	DEM-5W1S-NMB-76	QRN 94008	ITT CANNON
311P10-6S-B-15	SCBM5W1F202000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-6S-C-12	DEM-5W1S-NMC-77	QRN 94008	ITT CANNON
311P10-6S-C-12	SCBM5W1F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-6S-C-15	DEM-5W1S-NMC-76	QRN 94008	ITT CANNON
311P10-6S-C-15	SCBM5W1F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-7P-B-12	DAM-3W3P-NMB-77	QRN 94008	ITT CANNON
311P10-7P-B-12	SCBM3W3M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-7P-B-15	DAM-3W3P-NMB-76	QRN 94008	ITT CANNON
311P10-7P-B-15	SCBM3W3M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-7P-C-12	DAM-3W3P-NMC-77	QRN 94008	ITT CANNON
311P10-7P-C-12	SCBM3W3M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-7P-C-15	DAM-3W3P-NMC-76	QRN 94008	ITT CANNON
311P10-7P-C-15	SCBM3W3M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-7S-B-12	DAM-3W3S-NMB-77	QRN 94008	ITT CANNON
311P10-7S-B-12	SCBM3WF0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-7S-B-15	DAM-3W3S-NMB-76	QRN 94008	ITT CANNON
311P10-7S-B-15	SCBM3WF00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-7S-C-12	DAM-3W3S-NMC-77	QRN 94008	ITT CANNON
311P10-7S-C-12	SCBM3W3F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-7S-C-15	DAM-3W3S-NMC-76	QRN 94008	ITT CANNON
311P10-7S-C-15	SCBM3W3F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES

GSFC [S-311-P-10](#), Connector, Electrical, Rectangular, Miniature, Polarized Shell, Rack and Panel, For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P10-8P-B-12	DAM-7W2P-NMB-77	QRN 94008	ITT CANNON
311P10-8P-B-12	SCBM7W2M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-8P-B-15	DAM-7W2P-NMB-76	QRN 94008	ITT CANNON
311P10-8P-B-15	SCBM7W2M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-8P-C-12	DAM-7W2P-NMC-77	QRN 94008	ITT CANNON
311P10-8P-C-12	SCBM7W2M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-8P-C-15	DAM-7W2P-NMC-76	QRN 94008	ITT CANNON
311P10-8S-B-12	DAM-7W2S-NMB-77	QRN 94008	ITT CANNON
311P10-8S-B-12	SCBM7W2F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-8S-B-15	DAM-7W2S-NMB-76	QRN 94008	ITT CANNON
311P10-8S-B-15	SCBM7W2F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-8S-C-12	DAM-7W2S-NMC-77	QRN 94008	ITT CANNON
311P10-8S-C-12	SCBM7W2M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-8S-C-15	DAM-7W2S-NMC-76	QRN 94008	ITT CANNON
311P10-8S-C-15	SCBM7W2F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-93-C-12	SCBM11W1M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-93-C-15	SCBM11W1F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-9P-B-12	DAM-11W1P-NMB-77	QRN 94008	ITT CANNON
311P10-9P-B-12	SCBM11W1M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-9P-B-15	DAM-11W1P-NMB-76	QRN 94008	ITT CANNON
311P10-9P-B-15	SCBM11W1M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-9P-C-12	DAM-11W1P-NMC-77	QRN 94008	ITT CANNON
311P10-9P-C-12	SCBM7W2F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-9P-C-15	DAM-11W1P-NMC-76	QRN 94008	ITT CANNON
311P10-9P-C-15	SCBM11W1M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-9S-B-12	DAM-11W1S-NMB-77	QRN 94008	ITT CANNON
311P10-9S-B-12	SCBM1121F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-9S-B-15	DAM-11W1S-NMB-76	QRN 94008	ITT CANNON
311P10-9S-B-15	SCBM11WF20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-9S-C-12	DAM-11W1S-NMC-77	QRN 94008	ITT CANNON
311P10-9S-C-15	DAM-11W1S-NMC-76	QRN 94008	ITT CANNON
311P10-10P-B-12	DBM-5W5P-NMB-77	QRN 94008	ITT CANNON
311P10-10P-B-12	SCBM5W5M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-10P-B-15	DBM-5W5P-NMB-76	QRN 94008	ITT CANNON
311P10-10P-B-15	SCBM5W5M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-10P-C-12	DBM-5W5P-NMC-77	QRN 94008	ITT CANNON
311P10-10P-C-12	SCBM5W5M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-10P-C-15	DBM-5W5P-NMC-76	QRN 94008	ITT CANNON

GSFC [S-311-P-10](#), Connector, Electrical, Rectangular, Miniature, Polarized Shell, Rack and Panel, For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P10-10P-C-15	SCBM5W5M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-10S-B-12	DBM-5W5S-NMB-77	QRN 94008	ITT CANNON
311P10-10S-B-12	SCBM5WF0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-10S-B-15	DBM-5W5S-NMB-76	QRN 94008	ITT CANNON
311P10-10S-B-15	SCBM5W5F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-10S-C-12	DBM-5W5S-NMC-77	QRN 94008	ITT CANNON
311P10-10S-C-12	SCBM5W5F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-10S-C-15	DBM-5W5S-NMC-76	QRN 94008	ITT CANNON
311P10-10S-C-15	SCBM5W5F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-11P-B-12	DBM-9W4P-NMB-77	QRN 94008	ITT CANNON
311P10-11P-B-12	SCBM9W4M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-11P-B-15	DBM-9W4P-NMB-76	QRN 94008	ITT CANNON
311P10-11P-B-15	SCBM9W4M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-11P-C-12	DBM-9W4P-NMC-77	QRN 94008	ITT CANNON
311P10-11P-C-15	DBM-9W4P-NMC-76	QRN 94008	ITT CANNON
311P10-11S-B-12	DBM-9W4S-NMB-77	QRN 94008	ITT CANNON
311P10-11S-B-12	SCBM9W4F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-11S-B-15	DBM-9W4S-NMB-76	QRN 94008	ITT CANNON
311P10-11S-B-15	SCBM9W4F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-11S-C-12	DBM-9W4S-NMC-77	QRN 94008	ITT CANNON
311P10-11S-C-15	DBM-9W4S-NMC-76	QRN 94008	ITT CANNON
311P10-12P-B-12	DBM-13W3P-NMB-77	QRN 94008	ITT CANNON
311P10-12P-B-12	SCBM13W3M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-12P-B-15	DBM-13W3P-NMB-76	QRN 94008	ITT CANNON
311P10-12P-B-15	SCBM13W3M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-12P-C-12	DBM-13W3P-NMC-77	QRN 94008	ITT CANNON
311P10-12P-C-12	SCBM9W4M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-12P-C-15	DBM-13W3P-NMC-76	QRN 94008	ITT CANNON
311P10-12P-C-15	SCBM9W4M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-12S-B-12	DBM-13W3S-NMB-77	QRN 94008	ITT CANNON
311P10-12S-B-12	SCBM13W3F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-12S-B-15	DBM-13W3S-NMB-76	QRN 94008	ITT CANNON
311P10-12S-B-15	SCBM13W3F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-12S-C-12	DBM-13W3S-NMC-77	QRN 94008	ITT CANNON
311P10-12S-C-12	SCBM13W3F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-12S-C-15	DBM-13W3S-NMC-76	QRN 94008	ITT CANNON
311P10-12S-C-15	SCBM13W3F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-13P-B-12	DBM-17W2P-NMB-77	QRN 94008	ITT CANNON

GSFC [S-311-P-10](#), Connector, Electrical, Rectangular, Miniature, Polarized Shell, Rack and Panel, For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P10-13P-B-12	SCBM17W2M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-13P-B-15	DBM-17W2P-NMB-76	QRN 94008	ITT CANNON
311P10-13P-B-15	SCBM17W2M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-13P-C-12	DBM-17W3P-NMC-77	QRN 94008	ITT CANNON
311P10-13P-C-12	SCBM17W2M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-13P-C-15	DBM-17W2P-NMC-76	QRN 94008	ITT CANNON
311P10-13P-C-15	SCBM17W2M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-13S-B-12	DBM-17W2S-NMB-77	QRN 94008	ITT CANNON
311P10-13S-B-12	SCBM17W2F000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-13S-B-15	DBM-17W2S-NMB-76	QRN 94008	ITT CANNON
311P10-13S-B-15	SCBM17W2F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-13S-C-12	DBM-13W3S-NMC-77	QRN 94008	ITT CANNON
311P10-13S-C-12	SCBM17W2F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-13S-C-15	DBM-17W2S-NMC-76	QRN 94008	ITT CANNON
311P10-13S-C-15	SCBM17W2F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-14P-B-12	DBM-21W1P-NMB-77	QRN 94008	ITT CANNON
311P10-14P-B-12	SCBM21W1M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-14P-B-15	DBM-21W1P-NMB-76	QRN 94008	ITT CANNON
311P10-14P-B-15	SCBM21W1M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-14P-C-12	DBM-21W1P-NMC-77	QRN 94008	ITT CANNON
311P10-14P-C-12	SCBM21W1M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-14P-C-15	DBM-21W1P-NMC-76	QRN 94008	ITT CANNON
311P10-14P-C-15	SCBM21W1M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-14S-B-12	DBM-21W1S-NMB-77	QRN 94008	ITT CANNON
311P10-14S-B-12	SCBM21W1F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-14S-B-15	DBM-21W1S-NMB-76	QRN 94008	ITT CANNON
311P10-14S-B-15	SCBM21W1F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-14S-C-12	DBM-21W1S-NMC-77	QRN 94008	ITT CANNON
311P10-14S-C-12	SCBM21W1F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-14S-C-15	DBM-21W1S-NMC-76	QRN 94008	ITT CANNON
311P10-14S-C-15	SCBM21W1F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-15P-B-12	DCM-8W8P-NMB-77	QRN 94008	ITT CANNON
311P10-15P-B-12	SCBM8W8M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-15P-B-15	DCM-8W8P-NMB-76	QRN 94008	ITT CANNON
311P10-15P-B-15	SCBM8W8M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-15P-C-12	DCM-8W8P-NMC-77	QRN 94008	ITT CANNON
311P10-15P-C-12	SCBM8WM0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-15P-C-15	DCM-8W8P-NMC-76	QRN 94008	ITT CANNON

GSFC [S-311-P-10](#), Connector, Electrical, Rectangular, Miniature, Polarized Shell, Rack and Panel, For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P10-15P-C-15	SCBM8W8M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-15S-B-12	DCM-8W8S-NMB-77	QRN 94008	ITT CANNON
311P10-15S-B-12	SCBM8W8F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-15S-B-15	DCM-8W8S-NMB-76	QRN 94008	ITT CANNON
311P10-15S-B-15	SCBM8W8F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-15S-C-12	DCM-8W8S-NMC-77	QRN 94008	ITT CANNON
311P10-15S-C-12	SCBM1W1F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-15S-C-15	DCM-8W8S-NMC-76	QRN 94008	ITT CANNON
311P10-15S-C-15	SCBM8W8F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-16P-B-12	DCM-13W6P-NMB-77	QRN 94008	ITT CANNON
311P10-16P-B-12	SCBM13W6M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-16P-B-15	DCM-13W6P-NMB-76	QRN 94008	ITT CANNON
311P10-16P-B-15	SCBM13W6M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-16P-C-12	DCM-13W6P-NMC-77	QRN 94008	ITT CANNON
311P10-16P-C-12	SCBM13W6M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-16P-C-15	DCM-13W6P-NMC-76	QRN 94008	ITT CANNON
311P10-16P-C-15	SCBM13W6M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-16S-B-12	DCM-13W6S-NMB-77	QRN 94008	ITT CANNON
311P10-16S-B-12	SCBM13W6F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-16S-B-15	DCM-13W6S-NMB-76	QRN 94008	ITT CANNON
311P10-16S-B-15	SCBM13W6F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-16S-C-12	DCM-13W6S-NMC-77	QRN 94008	ITT CANNON
311P10-16S-C-12	SCBM13W6F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-16S-C-15	DCM-13W6S-NMC-76	QRN 94008	ITT CANNON
311P10-16S-C-15	SCBM13W6F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-17P-B-12	DCM-17W5P-NMB-77	QRN 94008	ITT CANNON
311P10-17P-B-12	SCBM17W5M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-17P-B-15	DCM-17W5P-NMB-76	QRN 94008	ITT CANNON
311P10-17P-B-15	SCBM17W5M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-17P-C-12	DCM-17W5P-NMC-77	QRN 94008	ITT CANNON
311P10-17P-C-12	SCBM17W5M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-17P-C-15	DCM-17W5P-NMC-76	QRN 94008	ITT CANNON
311P10-17P-C-15	SCBM17W5M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-17S-B-12	DCM-17W5S-NMB-77	QRN 94008	ITT CANNON
311P10-17S-B-12	SCBM17W5F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-17S-B-15	DCM-17W5S-NMB-76	QRN 94008	ITT CANNON
311P10-17S-B-15	SCBM17W5F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-17S-C-12	DCM-17W5S-NMC-77	QRN 94008	ITT CANNON

GSFC [S-311-P-10](#), Connector, Electrical, Rectangular, Miniature, Polarized Shell, Rack and Panel, For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P10-17S-C-12	SCBM17W5F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-17S-C-15	DCM-17W5S-NMC-76	QRN 94008	ITT CANNON
311P10-17S-C-15	SCBM17W5F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-18P-B-12	DCM-21WA4P-NMB-77	QRN 94008	ITT CANNON
311P10-18P-B-12	SCBM21WA4M200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-18P-B-15	DCM-21WA4P-NMB-76	QRN 94008	ITT CANNON
311P10-18P-B-15	SCBM21WA4M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-18P-C-12	DCM-21WA4P-NMC-77	QRN 94008	ITT CANNON
311P10-18P-C-12	SCBM21WA4M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-18P-C-15	DCM-21WA4P-NMC-76	QRN 94008	ITT CANNON
311P10-18P-C-15	SCBM21WA4M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-18S-B-12	DCM-21WA4S-NMB-77	QRN 94008	ITT CANNON
311P10-18S-B-12	SCBM21WA4F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-18S-B-15	DCM-21WA4S-NMB-76	QRN 94008	ITT CANNON
311P10-18S-B-15	SCBM21WA4F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-18S-C-12	DCM-21WA4S-NMC-77	QRN 94008	ITT CANNON
311P10-18S-C-12	SCBM21WA4F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-18S-C-15	DCM-21WA4S-NMC-76	QRN 94008	ITT CANNON
311P10-18S-C-15	SCBM21WA4F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-20P-B-12	DCM-25W3P-NMB-77	QRN 94008	ITT CANNON
311P10-20P-B-12	SCBM25W3M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-20P-B-15	DCM-25W3P-NMB-76	QRN 94008	ITT CANNON
311P10-20P-B-15	SCBM25W3M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-20P-C-12	DCM-25W3P-NMC-77	QRN 94008	ITT CANNON
311P10-20P-C-12	SCBM-25W3M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-20P-C-15	DCM-25W3P-NMC-76	QRN 94008	ITT CANNON
311P10-20P-C-15	SCBM25W3M2020G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-20S-B-12	DCM-25W3S-NMB-77	QRN 94008	ITT CANNON
311P10-20S-B-12	SCBM25W3F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-20S-B-15	DCM-25W3S-NMB-76	QRN 94008	ITT CANNON
311P10-20S-B-15	SCBM25W3F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-20S-C-12	DCM-25W3S-NMC-77	QRN 94008	ITT CANNON
311P10-20S-C-12	SCBM25W3F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-20S-C-15	DCM-25W3S-NMC-76	QRN 94008	ITT CANNON
311P10-20S-C-15	SCBM25W3F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-21P-B-12	DCM-27W2P-NMB-77	QRN 94008	ITT CANNON
311P10-21P-B-12	SCBM27W2M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-21P-B-15	DCM-27W2P-NMB-76	QRN 94008	ITT CANNON

GSFC [S-311-P-10](#), Connector, Electrical, Rectangular, Miniature, Polarized Shell, Rack and Panel, For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P10-21P-B-15	SCBM27W2M10200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-21P-C-12	DCM-27W2P-NMC-77	QRN 94008	ITT CANNON
311P10-21P-C-12	SCBM27W2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-21P-C-15	DCM-27W2P-NMC-76	QRN 94008	ITT CANNON
311P10-21P-C-15	SCBM27W2M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-21S-B-12	DCM-27W2S-NMB-77	QRN 94008	ITT CANNON
311P10-21S-B-12	SCBM27W2F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-21S-B-15	DCM-27W2S-NMB-76	QRN 94008	ITT CANNON
311P10-21S-B-15	SCBM27W2F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-21S-C-12	DCM-25W3S-NMC-77	QRN 94008	ITT CANNON
311P10-21S-C-12	SCBM27WF2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-21S-C-15	DCM-27W2S-NMC-76	QRN 94008	ITT CANNON
311P10-21S-C-15	SCBM27W2M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-22P-B-12	DDM-24W7P-NMB-77	QRN 94008	ITT CANNON
311P10-22P-B-12	SCBM24W7M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-22P-B-15	DDM-24W7P-NMB-76	QRN 94008	ITT CANNON
311P10-22P-B-15	SCBM24W7M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-22P-C-12	DDM-24W6S-NMC-77	QRN 94008	ITT CANNON
311P10-22P-C-12	SCBM24W7M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-22P-C-15	DDM-24W6S-NMC-76	QRN 94008	ITT CANNON
311P10-22P-C-15	SCBM24W7M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-22S-B-12	DDM-24W7S-NMB-77	QRN 94008	ITT CANNON
311P10-22S-B-12	SCBM24W7F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-22S-B-15	DDM-24W7S-NMB-76	QRN 94008	ITT CANNON
311P10-22S-B-15	SCBM24W7F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-22S-C-12	DDM-24W7S-NMC-76	QRN 94008	ITT CANNON
311P10-22S-C-12	SCBM24W7F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-22S-C-15	DDM-24W7P-NMC-76	QRN 94008	ITT CANNON
311P10-22S-C-15	SCBM24W7F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-23P-B-12	DDM-36W4P-NMB-77	QRN 94008	ITT CANNON
311P10-23P-B-12	SCBM36W4M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-23P-B-15	DDM-36W4P-NMB-76	QRN 94008	ITT CANNON
311P10-23P-B-15	SCBM36W4M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-23P-C-12	DDM-36W4S-NMC-77	QRN 94008	ITT CANNON
311P10-23P-C-12	SCBM36W4M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-23P-C-15	DDM-36W4S-NMC-76	QRN 94008	ITT CANNON
311P10-23P-C-15	SCBM36W4M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-23S-B-12	DDM-36W4S-NMB-77	QRN 94008	ITT CANNON

GSFC [S-311-P-10](#), Connector, Electrical, Rectangular, Miniature, Polarized Shell, Rack and Panel, For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P10-23S-B-12	SCBM36W4F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-23S-B-15	DDM-36W4S-NMB-76	QRN 94008	ITT CANNON
311P10-23S-B-15	SCBM36W4F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-23S-C-12	DDM-36W4S-NMC-77	QRN 94008	ITT CANNON
311P10-23S-C-12	SCBM36W4F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-23S-C-15	DDM-36W4S-NMC-76	QRN 94008	ITT CANNON
311P10-23S-C-15	SCBM36W4F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-24P-B-12	DDM-43W2P-NMB-77	QRN 94008	ITT CANNON
311P10-24P-B-12	SCBM43W2M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-24P-B-15	DDM-43W2P-NMB-76	QRN 94008	ITT CANNON
311P10-24P-B-15	SCBM43W2M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-24P-C-12	DDM-43W2S-NMC-77	QRN 94008	ITT CANNON
311P10-24P-C-12	SCBM43W2F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-24P-C-15	DDM-43W2S-NMC-76	QRN 94008	ITT CANNON
311P10-24P-C-15	SCBM43W2M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-24S-B-12	DDM-43W2S-NMB-77	QRN 94008	ITT CANNON
311P10-24S-B-12	SCBM43W2F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-24S-B-15	DDM-43W2S-NMB-76	QRN 94008	ITT CANNON
311P10-24S-B-15	SCBM47W1M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-24S-C-12	DDM-43W2S-NMC-77	QRN 94008	ITT CANNON
311P10-24S-C-12	SCBM43W2F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-24S-C-15	DDM-43W2S-NMC-76	QRN 94008	ITT CANNON
311P10-24S-C-15	SCBM43W2F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-25P-B-12	DDM-47W1P-NMB-77	QRN 94008	ITT CANNON
311P10-25P-B-12	SCBM471M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-25P-B-15	DDM-47W1P-NMB-76	QRN 94008	ITT CANNON
311P10-25P-B-15	SCBM47W1F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-25P-C-12	DDM-47W1P-NMC-77	QRN 94008	ITT CANNON
311P10-25P-C-12	SCBM47W1M2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-25P-C-15	DDM-47W1P-NMC-76	QRN 94008	ITT CANNON
311P10-25P-C-15	SCBM47W1M20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-25S-B-12	DDM-47W1S-NMB-77	QRN 94008	ITT CANNON
311P10-25S-B-12	SCBM47W1F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-25S-B-15	DDM-47W1S-NMC-76	QRN 94008	ITT CANNON
311P10-25S-B-15	SCBM47W1F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-25S-C-12	DDM-47W1S-NMC-77	QRN 94008	ITT CANNON
311P10-25S-C-12	SCBM47W1F2000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-25S-C-15	DDM-47W1S-NMC-76	QRN 94008	ITT CANNON

GSFC S-311-P-10 , Connector, Electrical, Rectangular, Miniature, Polarized Shell, Rack and Panel, For Space Flight Use			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P10-25S-C-15	SCBM47W1F20200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P10-29-B-12	DAM-15P-NMB-77	QRN 94008	ITT CANNON

GSFC S-311-P-4/05 , Connector, Electrical, Rectangular, Subminiature, Polarized Shell, Detailed Specification For Space Flight Use			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P405-6P-B-12	SCBC5W1M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-6P-B-15	SCBC5W1M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-6S-B-12	SCBC5W1F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-6S-B-15	SCBC5W1F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-7P-B-12	SCBM3W3M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-7P-B-12	448153-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-7P-B-15	SCBM3W3M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-7P-B-15	448153-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-7S-B-12	SCBM3W3F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-7S-B-12	445705-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-7S-B-15	SCBM3W3F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-7S-B-15	445705-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-8P-B-12	SCBC7W2M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-8P-B-12	448154-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-8P-B-15	DAMA-7W2P-NMB-88	QRN 94008	ITT CANNON
311P405-8P-B-15	SCBC7W2M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-8P-B-15	448154-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-8S-B-12	SCBC7W2F000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-8S-B-15	DAMA-7W2S-NMB-77	QRN 94008	ITT CANNON
311P405-8S-B-15	SCBC7W2F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-9P-B-12	DAMA-11W1P-NMB-77	QRN 94008	ITT CANNON
311P405-9P-B-12	SCBC11W1M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-9P-B-12	211111-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-9P-B-15	SCBC11W1M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-9P-B-15	211111-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-9S-B-12	DAMA-11W1S-NMB-77	QRN 94008	ITT CANNON
311P405-9S-B-12	SCBC11W1F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-9S-B-12	211112-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-9S-B-15	SCBC11W1F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-9S-B-15	211112-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-10P-B-12	SCBM5W5M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-10P-B-12	212491-6	QRN 94005	TYCO ELECTRONICS/AMP, INC.

GSFC [S-311-P-4/05](#), Connector, Electrical, Rectangular, Subminiature, Polarized Shell, Detailed Specification For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P405-10P-B-15	SCBM5W5M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-10P-B-15	212491-7	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-10S-B-12	SCBM5W5F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-10S-B-12	SCBM5W5F000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-10S-B-12	212059-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-10S-B-15	SCBM5W5F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-10S-B-15	SCBM5W5F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-10S-B-15	212059-06	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-11P-B-12	SCBC9W4M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-11P-B-12	212498-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-11P-B-15	SCBC9W4M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-11P-B-15	212498-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-11S-B-12	SCBC9W4F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-11S-B-12	212502-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-11S-B-15	SCBC9W400200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-11S-B-15	212502-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-12P-B-12	DBMA-13W3P-NMB-77	QRN 94008	ITT CANNON
311P405-12P-B-12	SCBC13W3M0000G-1082-24	QRN 94007	POSITRONIC INDUSTRIES
311P405-12P-B-12	208810-3	QRN 94005	TYCO ELECTRONICS/AMP, INC
311P405-12P-B-15	SCBC13W3M00200G-1082-24	QRN 94007	POSITRONIC INDUSTRIES
311P405-12P-B-15	208810-4	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-12S-B-12	DBMA-13W3S-NMB-77	QRN 94008	ITT CANNON
311P405-12S-B-12	SCBC13W3F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-12S-B-12	208811-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-12S-B-15	SCBC13W3F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-12S-B-15	208811-4	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-13P-B-12	DBMA-17W2P-NMB-77	QRN 94008	ITT CANNON
311P405-13P-B-12	SCBC17W2M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-13P-B-12	212506-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-13P-B-15	SCBC17W2M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-13P-B-15	212506-4	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-13S-B-12	DBMA-17W2S-NMB-77	QRN 94008	ITT CANNON
311P405-13S-B-12	SCBC17W2F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-13S-B-12	212510-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-13S-B-15	SCBC17W2F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-13S-B-15	212510-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-14P-B-12	SCBC21W1M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-14P-B-12	212522-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.

GSFC [S-311-P-4/05](#), Connector, Electrical, Rectangular, Subminiature, Polarized Shell, Detailed Specification For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P405-14P-B-15	SCBC21W1M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-14P-B-15	212522-4	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-14S-B-12	SCBC21W1F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-14S-B-12	212526-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-14S-B-15	SCBC21W1F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-14S-B-15	212526-4	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-15P-B-12	SCBM8W8M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-15P-B-12	446405-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-15P-B-15	SCBM8W8M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-15P-B-15	446405-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-15S-B-12	SCBM8W8F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-15S-B-12	445730-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-15S-B-15	SCBM8W8F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-15S-B-15	445730-4	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-16P-B-12	SCBC13W6M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-16P-B-15	SCBC13W6M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-16S-B-12	SCBC13W6F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-16S-B-15	SCBC13W6400200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-17P-B-12	SCBC17W5M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-17P-B-12	212514-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-17P-B-15	SCBC17W5M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-17P-B-15	212514-4	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-17S-B-12	SCBC17W5F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-17S-B-12	212518-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-17S-B-15	SCBC17W5F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-17S-B-15-	212518-4	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-18P-B-12	SCBC21WA4M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-18P-B-12	212530-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-18P-B-15	SCBC21WAFM00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-18P-B-15	212530-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-18S-B-12	SCBC21WA4F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-18S-B-12	212534-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-18S-B-15	SCBC21WA4F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-18S-B-15	212534-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-20P-B-12	SCBC25W3M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-20P-B-12	208742-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-20P-B-15	SCBC25W3M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-20P-B-15	208742-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.

GSFC [S-311-P-4/05](#), Connector, Electrical, Rectangular, Subminiature, Polarized Shell, Detailed Specification For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P405-20S-B-12	SCBC25W3F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-20S-B-12	208551-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-20S-B-15	SCBC25W3F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-20S-B-15	208551-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-21P-B-12	SCBC27W2M000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-21P-B-12	212538-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-21P-B-15	SCBC27W2M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-21P-B-15	212538-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-21S-B-12	SCBC27W2F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-21S-B-12	212542-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-21S-B-15	SCBC27W2F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-21S-B-15	212542-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-22P-B-12	SCBC24W7M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-22P-B-12	208743-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-22P-B-15	SCBC25W7M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-22P-B-15	208743-6	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-22S-B-12	SCBC244W7F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-22S-B-12	208552-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-22S-B-15	SCBC24W7F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-22S-B-15	208552-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-23P-B-12	SCBC36W4M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-23P-B-12	207644-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-23P-B-15	SCBC36W4M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-23P-B-15	207644-4	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-23S-B-12	SCBC36W4M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-23S-B-12	208550-2	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-23S-B-15	SCBC36W4F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-23S-B-15	208550-3	QRN 94005	TYCO ELECTRONICS/AMP, INC.
311P405-24P-B-12	SCBC43W2M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-24P-B-15	SCBC43W2M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-24S-B-12	SCBC47W1F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-24S-B-15	SCBC43W2F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-25P-B-12	SCBC47W1M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-25P-B-15	SCBC47W1M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-25S-B-12	SCBC47W1F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P405-25S-B-15	SCBC47W1F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES

GSFC S-311-P-4/06 , Connector, Electrical, Coaxial, and High Voltage For Electrical Connectors			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
GCP1	DM53740-17	QRN 94008	ITT CANNON
GCP1	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCP2	DM53740-15	QRN 94008	ITT CANNON
GCP2	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCP3	DM53740-16	QRN 94008	ITT CANNON
GCP3	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCP4	DM53740-18	QRN 94008	ITT CANNON
GCP4	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCRO2	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCRP1	DM53741-12	QRN 94008	ITT CANNON
GCRP1	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCRP2	DM53741-11	QRN 94008	ITT CANNON
GCRP3	DM53741-10	QRN 94008	ITT CANNON
GCRP3	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCRP4	DM53741-13	QRN 94008	ITT CANNON
GCRP4	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCS1	DM53742-18	QRN 94008	ITT CANNON
GCS1	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCS2	DM53742-16	QRN 94008	ITT CANNON
GCS2	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCS3	DM53742-17	QRN 94008	ITT CANNON
GCS3	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCS4	DM53742-19	QRN 94008	ITT CANNON
GCS4	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCSR1	DM43743-18	QRN 94008	ITT CANNON
GCSR1	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCSR2	DM43743-16	QRN 94008	ITT CANNON
GCSR2	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCSR3	DM43743-17	QRN 94008	ITT CANNON
GCSR3	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GCSR4	DM43743-19	QRN 94008	ITT CANNON
GCSR4	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GHP6	DM51157-8	QRN 94008	ITT CANNON
GHP6	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC
GHRP6	DM51157-5005	QRN 94008	ITT CANNON
GHRP6	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.
GHR6	DM51155-5004	QRN 94008	ITT CANNON
GHR6	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.

GSFC S-311-P-4/06 , Connector, Electrical, Coaxial, and High Voltage For Electrical Connectors			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
GHS6	DM51155-7	QRN 94008	ITT CANNON
GHS6	Not Assigned	QRN 93003	TYCO ELECTRONICS/AMP, INC.

GSFC S-311-P-4/07 , Connector, Electrical, Rectangular, Subminiature, Rack and Panel, Detailed Specification For Space Flight Use			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P407-1P-B-12	SDD15M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-1P-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-1P-B-12	206498-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-1P-B-15	SDD15M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-1P-B-15	206498-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-1S-B-12	SDD15F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-1S-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-1S-B-12	206499-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-1S-B-15	SDD15F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-1S-B-15	206499-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-2P-B-12	SDD26M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-2P-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-2P-B-12	206500-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-2P-B-15	SDD26M00200G-1082-24	QRN 94007	POSITRONIC INDUSTRIES
311P407-2P-B-15	206500-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-2S-B-12	SDD26F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-2S-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-2S-B-12	206501-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-2S-B-15	SDD26F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-2S-B-15	206501-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-3P-B-12	SDD44M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-3P-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-3P-B-12	206063-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-3P-B-15	SDD44M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-3P-B-15	206063-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-3S-B-12	SDD44F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-3S-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-3S-B-12	206064-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-3S-B-15	SDD44F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-3S-B-15	206064-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-4P-B-12	SDD62M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-4P-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-4P-B-12	206502-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.

GSFC [S-311-P-4/07](#), Connector, Electrical, Rectangular, Subminiature, Rack and Panel, Detailed Specification For Space Flight Use

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P407-4P-B-15	SDD62M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-4P-B-15	206502-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-4S-B-12	SDD62F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-4S-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-4S-B-12	206503-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-4S-B-15	SDD62F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-4S-B-15	206503-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-5P-B-12	SDD78M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-5P-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-5P-B-12	206504-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-5P-B-15	SDD78M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-5P-B-15	206504-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-5S-B-12	SDD78F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-5S-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-5S-B-12	206505-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-5S-B-15	SDD78F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-5S-B-15	206505-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-6P-B-12	SND104M00G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-6P-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-6P-B-12	206066-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-6P-B-15	SDD104M0020G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-6P-B-15	206066-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-6S-B-12	SDD104F000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-6S-B-12	TBD	QRN 93004	SOURIAU USA INC
311P407-6S-B-12	206065-4	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P407-6S-B-15	SDD104F0020G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P407-6S-B-15	206065-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.

GSFC [S-311-P-4/08](#), Connector, Electrical, Power, Crimp Style, Rear Removable, Size 22D

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G08P1	030-2042-002	QRN 94008	ITT CANNON
G08P1	MC8022D-50-1202.4	QRN 94007	POSITRONIC INDUSTRIES
G08P1	340100507B	QRN 93004	SOURIAU USA INC
G08P1	204370-8	CTL5064-058	TYCO ELECTRONICS/AMP, INC
G08S1	031-1147-002	QRN 94008	ITT CANNON
G08S1	FC8022D-50-1202.4	QRN 94007	POSITRONIC INDUSTRIES
G08S1	340100508B	QRN 93004	SOURIAU USA INC
G08S1	206071-1	CTL5064-058	TYCO ELECTRONICS/AMP, INC.

GSFC S-311-P-4/09 , Connector, Electrical, Polarized Shell, Rack and Panel, For Space Flight Use			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P409-1P-B-12	SND9M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-1P-B-12	TBD	QRN 93004	SOURIAU USA INC
311P409-1P-B-12	207252-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-1P-B-15	DEMAK-9P-NMB-K47	QRN 94008	ITT CANNON
311P409-1P-B-15	SND9M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-1P-B-15	207252-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-1S-B-12	DEMA-9S-NMB-K47	QRN 94008	ITT CANNON
311P409-1S-B-12	SND9F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-1S-B-12	TBD	QRN 93004	SOURIAU USA INC
311P409-1S-B-12	207253-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-1S-B-15	DEMAK-9S-NMB-K47	QRN 94008	ITT CANNON
311P409-1S-B-15	SND9F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-1S-B-15	207253-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-29-B-12	SND15M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-2P-B-12	DAMA-15P-NMB-K47	QRN 94008	ITT CANNON
311P409-2P-B-12	TBD	QRN 93004	SOURIAU USA INC
311P409-2P-B-12	206798-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-2P-B-15	DAMAK-15P-NMB-K47	QRN 94008	ITT CANNON
311P409-2P-B-15	SND15M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-2P-B-15	206798-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-2S-B-12	DAMA-15S-NMB-K47	QRN 94008	ITT CANNON
311P409-2S-B-12	SND15F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-2S-B-12	TBD	QRN 93004	SOURIAU USA INC
311P409-2S-B-12	206799-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-2S-B-15	DAMAK-15S-NMB-K47	QRN 94008	ITT CANNON
311P409-2S-B-15	SND15F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-2S-B-15	206799-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-3P-B-12	DBMA-25P-NMB-K47	QRN 94008	ITT CANNON
311P409-3P-B-12	SND25M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-3P-B-12	TBD	QRN 93004	SOURIAU USA INC
311P409-3P-B-12	206800-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-3P-B-15	DBMAK-15P-NMB-K47	QRN 94008	ITT CANNON
311P409-3P-B-15	SND25M00200G-1082.24	QRN94007	SOURIAU USA INC
311P409-3P-B-15	206800-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-3S-B-12	DBMA-25S-NMB-K47	QRN 94008	ITT CANNON
311P409-3S-B-12	SND25F0000G-1082-24	QRN 94007	POSITRONIC INDUSTRIES
311P409-3S-B-12	TBD	QRN 93004	SOURIAU USA INC
311P409-3S-B-12	206801-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.

GSFC S-311-P-4/08 , Connector, Electrical, Power, Crimp Style, Rear Removable, Size 22D			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P409-3S-B-15	DBMAK-25S-NMB-K47	QRN 94008	ITT CANNON
311P409-3S-B-15	SND25F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-3S-B-15	206801-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-4P-B-12	DCMA-37P-NMB-K47	QRN 94008	ITT CANNON
311P409-4P-B-12	SND37M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-4P-B-12	TBD	QRN 93004	SOURIAU USA INC
311P409-4P-B-12	206802-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-4P-B-15	DCMAK-37P-NMB-K47	QRN 94008	ITT CANNON
311P409-4P-B-15	SND37M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-4P-B-15	206802-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-4S-B-12	DCMA-37S-NMB-K47	QRN 94008	ITT CANNON
311P409-4S-B-12	SND37F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-4S-B-12	TBD	QRN 93004	SOURIAU USA INC
311P409-4S-B-12	206803-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-4S-B-15	DCMAK-37S-NMB-K47	QRN 94008	ITT CANNON
311P409-4S-B-15	SND37F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-4S-B-15	206803-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-5P-B-12	DDMA-50P-NMB-K47	QRN 94008	ITT CANNON
311P409-5P-B-12	SND50M0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-5P-B-12	TBD	QRN 93004	SOURIAU USA INC
311P409-5P-B-12	206804-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-5P-B-15	DDMAK-50P-NMB-K47	QRN 94008	ITT CANNON
311P409-5P-B-15	SND50M00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-5P-B-15	206804-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-5S-B-12	DDMA-50S-NMB-K47	QRN 94008	ITT CANNON
311P409-5S-B-12	SND50F0000G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-5S-B-12	TBD	QRN 93004	SOURIAU USA INC
311P409-5S-B-12	206805-2	CTL5066-027	TYCO ELECTRONICS/AMP, INC.
311P409-5S-B-15	DDMAK-50P-NMB-K47	QRN 94008	ITT CANNON
311P409-5S-B-15	SND50F00200G-1082.24	QRN 94007	POSITRONIC INDUSTRIES
311P409-5S-B-15	206805-1	CTL5066-027	TYCO ELECTRONICS/AMP, INC.

GSFC S-311-P-4/10 , Contacts, Electrical, Crimp Style, Size 20			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G10P1	330-5291-037	QRN 94008	ITT CANNON
G10P1	MC6020D-50-1202.4	QRN 94007	POSITRONIC INDUSTRIES
G10P1	340100501B	QRN 93004	SOURIAU USA INC
G10P1	205089-4	CTL5064-057	TYCO ELECTRONICS/AMP, INC.
G10S1	031-1007-052	QRN 94008	ITT CANNON
G10S1	FC6020D-50-1202.4	QRN 94007	POSITRONIC INDUSTRIES
G10S1	340100502B	QRN 93004	SOURIAU USA INC
G10S1	206793-1	CTL5064-057	TYCO ELECTRONICS/AMP, INC.

GSFC S-311-P-768 , Connector, Electrical, Miniature, Circular, Low Outgassing [Amphenol(453) suffix],General Specification			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
JT****-**-***(453)	JT SERIES	QRN 94003	AMPHENOL AEROSPACE
LJT****-**-***(453)	LJT SERIES	QRN 94003	AMPHENOL AEROSPACE
PTS**DR****-***(453)	PTS-DR SERIES	QRN 94003	AMPHENOL AEROSPACE
Tv****-**-***(453)	TV SERIES	QRN 94003	AMPHENOL SEROSPACE

GSFC S-311-P-822 , Connectors, PWB, 2 mm cPCITM Style, High Reliability			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P822 MC-110-AG-D4	Not available	204287	HYPERTRONICS
311P822 MC-110-AS-D4	822 MC-110-AS-D4-S12-14-8G	204287	HYPERTRONICS
311P822 MC-110-BG-D4	Not available	204287	HYPERTRONICS
311P822 MC-110-BS-D4	822 MC-110-BS-D4-S12-14-8G	204287	HYPERTRONICS
311P822-BPF	T-2066	204287	HYPERTRONICS
311P822-DCF	T-2082	204287	HYPERTRONICS
311P822-FA-095-B	822-FA-095-B	204287	HYPERTRONICS
311P822-FA-110-A	822-FA-110-A	204287	HYPERTRONICS
311P822-FA-110-B	822-FA-110-B	204287	HYPERTRONICS
311P822-FC-095-BG-D	822-FC-095-BG-D-S2-14-8G	204287	HYPERTRONICS
311P822-FC-095-BG-D2	822-FC-095-BG-D2-S2-14-8G	204287	HYPERTRONICS
311P822-FC-095-BG-D4	822-FC-095-BG-D4-S2-14-8G	204287	HYPERTRONICS
311P822-FC-095-BS-D	822-FC-095-BS-D-S12-14-8G	204287	HYPERTRONICS
311P822-FC-095-BS-D2	822-FC-095-BS-D2-S12-14-8G	204287	HYPERTRONICS
311P822-FC-095-BS-D4	822-FC-095-BS-D4-S12-14-8G	204287	HYPERTRONICS
311P822-FC-110-AG-D	822-FC-110-AG-D-S2-14-8G	204287	HYPERTRONICS
311P822-FC-110-AG-D2	822-FC-110-AG-D2-S2-14-8G	204287	HYPERTRONICS
311P822-FC-110-AG-D4	822-FC-110-AG-D4-S2-14-8G	204287	HYPERTRONICS

GSFC S-311-P-822 , Connectors, PWB, 2 mm cPCITM Style, High Reliability			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P822-FC-110-AS-D	822-FC-110-AS-D-S12-14-8G	204287	HYPERTRONICS
311P822-FC-110-AS-D2	822-FC-110-AS-D2-S12-14-8G	204287	HYPERTRONICS
311P822-FC-110-AS-D4	822-FC-110-AS-D4-S12-14-8G	204287	HYPERTRONICS
311P822-FC-110-BG-D	822-FC-110-BG-D-S2-14-8G	204287	HYPERTRONICS
311P822-FC-110-BG-D2	822-FC-110-BG-D2-S2-14-8G	204287	HYPERTRONICS
311P822-FC-110-BG-D4	822-FC-110-BG-D4-S2-14-8G	204287	HYPERTRONICS
311P822-FC-110-BS-D	822-FC-110-BS-D-S12-14-8G	204287	HYPERTRONICS
311P822-FC-110-BS-D2	822-FC-110-BS-D2-S12-14-8G	204287	HYPERTRONICS
311P822-FC-110-BS-D4	822-FC-110-BS-D4-S12-14-8G	204287	HYPERTRONICS
311P822-FFA-095-B	822-FFA-095-B	204287	HYPERTRONICS
311P822-FFA-110-A	822-FFA-110-A	204287	HYPERTRONICS
311P822-FFA-110-B	822-FFA-110-B	204287	HYPERTRONICS
311P822-FK-01	ZK2000-001-01	204287	HYPERTRONICS
311P822-FK-03	ZK2000-001-03	204287	HYPERTRONICS
311P822-FK-04	ZK2000-001-04	204287	HYPERTRONICS
311P822-FK-05	ZK2000-001-05	204287	HYPERTRONICS
311P822-FK-07	ZK2000-001-07	204287	HYPERTRONICS
311P822-FK-08	ZK2000-001-08	204287	HYPERTRONICS
311P822-FK-14	ZK2000-001-14	204287	HYPERTRONICS
311P822-FK-16	ZK2000-001-16	204287	HYPERTRONICS
311P822-FK-19	ZK2000-001-19	204287	HYPERTRONICS
311P822-FK-21	ZK2000-001-21	204287	HYPERTRONICS
311P822-FK-22	ZK2000-001-22	204287	HYPERTRONICS
311P822-FK-25	ZK2000-001-25	204287	HYPERTRONICS
311P822-FK-27	ZK2000-001-27	204287	HYPERTRONICS
311P822-FK-29	ZK2000-001-29	204287	HYPERTRONICS
311P822-FK-31	ZK2000-001-31	204287	HYPERTRONICS
311P822-FK-33	ZK2000-001-33	204287	HYPERTRONICS
311P822-FK-35	ZK2000-001-35	204287	HYPERTRONICS
311P822-FK-37	ZK2000-001-37	204287	HYPERTRONICS
311P822-FK-59	ZK2000-001-59	204287	HYPERTRONICS
311P822-FK-61	ZK2000-001-61	204287	HYPERTRONICS
311P822-FK-69	ZK2000-001-69	204287	HYPERTRONICS
311P822-MA-095-B	822-MA-095-B	204287	HYPERTRONICS
311P822-MA-110-A	822-MA-110-A	204287	HYPERTRONICS
311P822-MA-110-B	822-MA-110-B	204287	HYPERTRONICS
311P822-MC-095-BG-D	Not available	204287	HYPERTRONICS

GSFC S-311-P-822 , Connectors, PWB, 2 mm cPCITM Style, High Reliability			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P822-MC-095-BG-D4	Not available	204287	HYPERTRONICS
311P822-MC-095-BS-D	822-MC-095-BS-D-S12-14-8G	204287	HYPERTRONICS
311P822-MC-095-BS-D4	822-MC-095-BS-D4-S12-14-8G	204287	HYPERTRONICS
311P822-MC-110-AG-D	Not available	204287	HYPERTRONICS
311P822-MC-110-AS-D	822-MC-110-AS-D-S12-14-8G	204287	HYPERTRONICS
311P822-MC-110-BG-D	Not available	204287	HYPERTRONICS
311P822-MC-110-BS-D	822-MC-110-BS-D-S12-14-8G	204287	HYPERTRONICS
311P822-MK-01	ZK2000-002-01	204287	HYPERTRONICS
311P822-MK-03	ZK2000-002-03	204287	HYPERTRONICS
311P822-MK-04	ZK2000-002-04	204287	HYPERTRONICS
311P822-MK-05	ZK2000-002-05	204287	HYPERTRONICS
311P822-MK-07	ZK2000-002-07	204287	<u>HYPERTRONICS</u>
311P822-MK-08	ZK2000-002-08	204287	HYPERTRONICS
311P822-MK-14	ZK2000-002-14	204287	HYPERTRONICS
311P822-MK-16	ZK2000-002-16	204287	HYPERTRONICS
311P822-MK-19	ZK2000-002-19	204287	HYPERTRONICS
311P822-MK-21	ZK2000-002-21	204287	HYPERTRONICS
311P822-MK-22	ZK2000-002-22	204287	HYPERTRONICS
311P822-MK-25	ZK2000-002-25	204287	HYPERTRONICS
311P822-MK-27	ZK2000-002-27	204287	HYPERTRONICS
311P822-MK-29	ZK2000-002-29	204287	HYPERTRONICS
311P822-MK-31	ZK2000-002-31	204287	HYPERTRONICS
311P822-MK-33	ZK2000-002-33	204287	HYPERTRONICS
311P822-MK-35	ZK2000-002-35	204287	HYPERTRONICS
311P822-MK-37	ZK2000-002-37	204287	HYPERTRONICS
311P822-MK-59	ZK2000-002-59	204287	HYPERTRONICS
311P822-MK-61	ZK2000-002-61	204287	HYPERTRONICS
311P822-MK-69	ZK2000-002-69	204287	HYPERTRONICS

5.2 RELAYS

GSFC [S-311-P-754/01](#) Relays, Electromagnetic, Hermetically Sealed, 2PDT (2C), Latching, Low Level to 1 Ampere (TO-5 Enclosure)

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P754/01-001	J422-6WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/01-002	J422-9WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/01-003	J422-12WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/01-004	J422-18WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/01-005	J422-26WM	QPDSIS-39016	TELEDYNE RELAYS

GSFC [S-311-P-754/02](#), Relays, Electromagnetic, Hermetically Sealed, 2PDT (2C), Latching, Low Level to 1 Ampere, Internal Diode for Coil Transients (TO-5 Enclosure)

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P754/02-001	J422D5WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/02-002	J422D6WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/02-003	J422D9WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/02-004	J422D12WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/02-005	J422D18WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/02-006	J422D26WM	QPDSIS-39016	TELEDYNE RELAYS

GSFC [S-311-P-754/03](#), Relays, Electromagnetic, Hermetically Sealed, 2PDT (2C), Latching, Low Level to 1 Ampere (TO-5 Enclosure)

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P754/03-001	J412-6WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/03-001	To be assigned	QPDSIS-39016	TYCO ELECTRONICS - CII
G311P754/03-002	J412-9WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/03-002	To be assigned	QPDSIS-39016	TYCO ELECTRONICS - CII
G311P754/03-003	J412-12WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/03-003	To be assigned	QPDSIS-39016	TYCO ELECTRONICS - CII
G311P754/03-004	J412-18WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/03-004	To be assigned	QPDSIS-39016	TYCO ELECTRONICS - CII
G311P754/03-005	J412-26WM	QPDSIS-39016	TELEDYNE RELAYS
G311P754/03-005	To be assigned	QPDSIS-39016	TYCO ELECTRONICS - CII

GSFC [S-311-P-754/04](#), Relays, Electromagnetic, Hermetically Sealed, 2PDT (2C), Low Level to 1 Ampere, Internal Diode for Coil Transients, (TO-5 Enclosure)

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P754/04-001	J412D-6M	QPDSIS-39016	TELEDYNE RELAYS
G311P754/04-001	MACD-8027	QPDSIS-39016	TYCO ELECTRONICS - CII

GSFC [S-311-P-754/04](#), Relays, Electromagnetic, Hermetically Sealed, 2PDT (2C), Low Level to 1 Ampere, Internal Diode for Coil Transients, (TO-5 Enclosure)

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P754/04-002	J412D-9M	QPDSIS-39016	TELEDYNE RELAYS
G311P754/04-002	To be assigned	QPDSIS-39016	TYCO ELECTRONICS – CII
G311P754/04-003	J412D-12M	QPDSIS-39016	TELEDYNE RELAYS
G311P754/04-003	To be assigned	QPDSIS-39016	TYCO ELECTRONICS - CII
G311P754/04-004	J412D-18M	QPDSIS-39016	TELEDYNE RELAYS
G311P754/04-004	To be assigned	QPDSIS-39016	TYCO ELECTRONICS – CII
G311P754/04-005	J412D-26M	QPDSIS-39016	TELEDYNE RELAYS
G311P754/04-005	To be assigned	QPDSIS-39016	TYCO ELECTRONICS – CII

GSFC [S-311-P-754/06](#), Relays, Electromagnetic, Hermetically Sealed, 2PDT (2C), Permanent Magnet Drive, 10 Ampere, All Welded

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P754/06-001	BR246-320B2-28V-023M	QPDSIS-83536	BABCOCK
G311P754/06-001	E2100403ATM	QPDSIS-83536	DEUTSCH RELAYS
G311P754/06-001	J-D2A-300M	QPDSIS-83536	LEACH INTERNATIONAL
G311P754/06-002	BR246-320A2-28V-024M	QPDSIS-83536	BABCOCK
G311P754/06-002	E2100403BGM	QPDSIS-83536	DEUTSCH RELAYS
G311P754/06-002	J-D4A-300M	QPDSIS-83536	LEACH INTERNATIONAL

GSFC [S-311-P-754/07](#), Relays, Electromagnetic, Hermetically Sealed, 2PDT (2C), Low Level to 2 Amperes (0.150 inch Terminal Spacing)

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P754/07-001	To be assigned	QPDSIS-39016	TYCO ELECTRONICS – CII
G311P754/07-002	To be assigned	QPDSIS-39016	TYCO ELECTRONICS – CII
G311P754/07-003	To be assigned	QPDSIS-39016	TYCO ELECTRONICS – CII
G311P754/07-056	3SBC2203A2		TYCO ELECTRONICS – CII

GSFC [S-311-P-754/08](#), Relays, Electromagnetic, Hermetically Sealed, 4PDT (4C), Latching, Low Level to 2 Amperes (0.150 inch Terminal Spacing)

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P754/08-001	To be assigned	QPDSIS-39016	TYCO ELECTRONICS - CII
G311P754/08-002	3SBM1264A2	QPDSIS-39016	TYCO ELECTRONICS – CII
G311P754/08-003	3SBM1264A2	QPDSIS-39016	TYCO ELECTRONICS – CII

GSFC [S-311-P-754/09](#), Relays, Electromagnetic, Hermetically Sealed, 4PDT (4C), Low Level to 2 Amperes (0.150 inch Terminal Spacing)

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P754/09-001	BR150-28C1-6V-005M	QPDSIS-39016	BABCOCK
G311P754/09-002	BR150-116C1-12V-007M	QPDSIS-39016	BABCOCK
G311P754/09-003	BR150-720C1-26V-002M	QPDSIS-39016	BABCOCK
G311P754/09-001	To be assigned	QPDSIS-39016	TYCO ELECTRONICS – CII
G311P754/09-002	To be assigned	QPDSIS-39016	TYCO ELECTRONICS – CII
G311P754/09-003	3SBH1347A2	QPDSIS-39016	TYCO ELECTRONICS – CII

GSFC [S-311-P-754/10](#), Relays, Electromagnetic, Hermetically Sealed, 4PDT (4C), Permanent Magnet Drive, 10 Amperes, All Welded

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P754/10-001	BR230-290B2-28V-021M	QPDSIS-83536	BABCOCK
G311P754/10-001	E4100402ATM	QPDSIS-83536	DEUTSCH RELAYS
G311P754/10-001	K-D2A-300M	QPDSIS-83536	LEACH INTERNATIONAL
G311P754/10-002	BR230-290A2-28V-022M	QPDSIS-83536	BABCOCK
G311P754/10-002	E4100402BGM	QPDSIS-83536	DEUTSCH RELAYS
G311P754/10-002	K-D4A-300M	QPDSIS-83536	LEACH INTERNATIONAL

GSFC [S-311-P-754/11](#), Relays, Electromagnetic, Hermetically Sealed, 3PDT (3C), Latching, 25 Amperes, All Welded

Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P754/11-001	BR236-450B2-28V-1	QPDSIS-6106	BABCOCK
G311P754/11-001	EL3250402AT	QPDSIS-6106	DEUTSCH RELAYS
G311P754/11-001	KCL-D2A-002	QPDSIS-6106	LEACH INTERNATIONAL
G311P754/11-002	BR236-450A2-28V-1	QPDSIS-6106	BABCOCK
G311P754/11-002	EL3250402BG	QPDSIS-6106	DEUTSCH RELAYS
G311P754/11-002	KCL-D4A-002	QPDSIS-6106	LEACH INTERNATIONAL

5.3 RESISTORS

GSFC S-311-P-672 Resistor, Fixed, High Voltage (Victoreen Mini-Mox)			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P672-1-****	MO* 400****	QRN 92003	OHMITE
G311P672-2-****	MO* 750****	QRN 92003	OHMITE
G311P673-3-****	MO* 1125****	QRN 92003	OHMITE

GSFC S-311-P-683 Resistor, Fixed, Precision High Voltage (Caddock Type MG and HG)			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P683-650****	MG650-****_***	QRN 92004	CADDOCK ELECTRONICS
G311P683-655****	MG655-****_***	QRN 92004	CADDOCK ELECTRONICS
G311P683-660****	MG660-****_***	QRN 92004	CADDOCK ELECTRONICS
G311P683-680****	MG680-****_***	QRN 92004	CADDOCK ELECTRONICS
G311P683-710****	MG710-****_***	QRN 92004	CADDOCK ELECTRONICS
G311P683-714****	MG714-****_***	QRN 92004	CADDOCK ELECTRONICS
G311P683-715****	MG715-****_***	QRN 92004	CADDOCK ELECTRONICS
G311P683-716****	MG716-****_***	SR04-0405	CADDOCK ELECTRONICS
G311P683-720****	MG720-****_***	QRN 92004	CADDOCK ELECTRONICS
G311P683-721****	MG721-****_***	QRN 92004	CADDOCK ELECTRONICS
G311P683-725****	MG725-****_***	QRN 92004	CADDOCK ELECTRONICS
G311P683-730****	MG730-****_***	QRN 92004	CADDOCK ELECTRONICS
G311P683-750****	MG750-****_***	SR04-0405	CADDOCK ELECTRONICS
G311P683-780****	MG780-****_***	QRN 92004	CADDOCK ELECTRONICS

GSFC S-311-P-741 Resistor, Fixed, Low TC, Precision, High Voltage (Caddock Type TG)			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P741-931****F	TG931-***-1%	SR04-0405	CADDOCK ELECTRONICS
G311P741-950****F	TG950-****-1%	QRN 92002	CADDOCK ELECTRONICS
G311P741-950****G	TG950-****-2%	QRN 92002	CADDOCK ELECTRONICS
G311P741-980****F	TG980-****-1%	SR04-0405	CADDOCK ELECTRONICS

GSFC S-311-P-742 Resistor, Fixed, Low TC, Precision, Radial-Lead(Caddock Type TK)			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P742-134****B	TK134	SRN04-0401	CADDOCK ELECTRONICS
G311P742-134****C	TK134	SRN04-0401	CADDOCK ELECTRONICS
G311P742-134****F	TK134	SRN04-0401	CADDOCK ELECTRONICS

GSFC S-311-P-794 Resistor, Fixed, Low TC, Precision, High Stability,(Caddock Type TK)			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P794-121A****A	TK121	No data	CADDOCK ELECTRONICS
G311P794-121A****B	TK121	No data	CADDOCK ELECTRONICS
G311P794-121A****C	TK121	No data	CADDOCK ELECTRONICS
G311P794-121A****D	TK121	No data	CADDOCK ELECTRONICS
G311P794-121A****F	TK121	No data	CADDOCK ELECTRONICS
G311P794-121A****G	TK121	No data	CADDOCK ELECTRONICS
G311P794-133A****A	TK133	No data	CADDOCK ELECTRONICS
G311P794-133A****A	TK133	No data	CADDOCK ELECTRONICS
G311P794-133A****B	TK133	No data	CADDOCK ELECTRONICS
G311P794-133A****C	TK133	No data	CADDOCK ELECTRONICS
G311P794-133A****D	TK133	No data	CADDOCK ELECTRONICS
G311P794-133A****F	TK133	No data	CADDOCK ELECTRONICS
G311P794-139A****B	TK139	No data	CADDOCK ELECTRONICS
G311P794-139A****C	TK139	No data	CADDOCK ELECTRONICS
G311P794-139A****D	TK139	No data	CADDOCK ELECTRONICS
G311P794-139A****F	TK139	No data	CADDOCK ELECTRONICS
G311P794-139A****G	TK139	No data	CADDOCK ELECTRONICS

GSFC S-311-P-796 , Resistor, "Matched-Pair", Low TC, Precision, Radial-Lead(Caddock Type TK)			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P796-621-01	TK621	No data	CADDOCK ELECTRONICS
G311P796-633-01	TK633	No data	CADDOCK ELECTRONICS
G311P796-639-01	TK639	No data	CADDOCK ELECTRONICS

GSFC S-311-P-813 , Resistor, Fixed,Low TC, Percision, Radial-Lead			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P813*****	<u>WN Series</u>	55182-484-03	WILBRECHT LEDCO, INC.
	100 ohms thru 100 kohms		
	±5, 10 or 20 ppm/°C		
	All Tolerances		
G311P813*****	<u>WZ Series</u>	55182-859-04	WILBRECHT LEDCO,INC.
	100 ohms thru 50 kohms	55182-860-04	
	±2.5, 5, 10 or 20 ppm/°C		
	All tolerances		

5.4 THERMISTORS

GSFC S-311-P-18 , Thermistor, (Thermally Sensitive Resistor), Insulated and Uninsulated, Negative TC			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P18-01A***	MEAS44901A***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-01E***	MEAS44901E***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-01N***	MEAS44901N***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-01S***	MEAS44901S***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-02A***	MEAS44902A***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-02E***	MEAS44902E***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-02N***	MEAS44902N***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-02S***	MEAS44902S***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-03A***	MEAS44903A***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-03E***	MEAS44903E***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-03N***	MEAS44903N***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-03S***	MEAS44903S***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-04A***	MEAS44904A***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-04E***	MEAS44904E***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-04N***	MEAS44904N***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-04S***	MEAS44904S***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-05A***	MEAS44905A***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-05E***	MEAS44905E***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-05N***	MEAS44905N***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-05S***	MEAS44905S***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-06A***	MEAS44906A***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-06E***	MEAS44906E***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-06N***	MEAS44906N***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-06S***	MEAS44906S***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-07A***	MEAS44907A***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-07E***	MEAS44907E***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-07N***	MEAS44907N***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-07R6	MEAS449**	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-07S***	MEAS44907S***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-08A***	MEAS44908A***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-08E***	MEAS44908E***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-08N***	MEAS44908N***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-08S***	MEAS44908S***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-09A***	MEAS44909A***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-09E***	MEAS44909E***	MIL-PRF-23648	MEASUREMENT SPECIALTIES

GSFC S-311-P-18 , Thermistor, (Thermally Sensitive Resistor), Insulated and Uninsulated, Negative TC			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
311P18-09N***	MEAS44909N***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-09S***	MEAS44909S***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-10A***	MEAS44910E***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-10E***	MEAS44910E***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-10N***	MEAS44910N***	MIL-PRF-23648	MEASUREMENT SPECIALTIES
311P18-10S***	MEAS44910S***	MIL-PRF-23648	MEASUREMENT SPECIALTIES

5.5 THERMOFOIL HEATERS

GSFC S-311-P-079 , Thermofoil Heater			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
HK2*****	Custom manufactured to the GSFC specification.	QRN 92005	MINCO PRODUCTS
TBA	Procure per Tayco specification TPS-5010, compliant to GSFC S-311-P-079	TR2008	TAYCO ENGINEERING, INC.

5.6 THERMOSTATS

GSFC S-311-641 , Thermostats			
Procurement PIN	Manufacturer Similar PIN	Test Report	Manufacturer
G311P641/02*****	M2 Series	QPL-24236-31	SENSATA TECHNOLOGIES INC
G311P641/03*****	700 Series	QPL-24236-31	Honeywell DSES Redmond, WA

6.0 MANUFACTURERS LISTING

Manufacturer: [Amphenol Aerospace](#)
Bendix Connectors Opns
Street Address: 40-60 Delaware Avenue
City, State, Zip Code: Sidney NY 13838-1395

Phone: (607)563-5011
Fax: (607)563-5157

CAGE CODE: 77820

Manufacturer: [Babcock, Inc.](#)
Street Address: 14930 Alondra Blvd.
City, State Zip Code: La Mirada, CA 90638-5752

Phone: (714)994-6500
Fax: (714)538-9740

CAGE CODE: 56623

Manufacturer: [Caddock Electronics, Inc](#)
Street Address: 1717 Chicago Avenue
City, State Zip Code: Riverside, CA 92507-2364

Phone: (541)496-0700
Fax: (541)496-0408

CAGE CODE: 19647

Manufacturer: [Deutsch Relays, Inc](#)
Street Address: 55 Engineers Road
City, State, Zip Code: Hauppauge, NY 11788

Phone: (631)840-3224
Fax: (631)232-4104

CAGE CODE: 99699

Manufacturer: [Hypertronics](#)
Street Address: 16 Brent Drive
City, State, Zip Code: Hudson, MA 01749 USA

Phone: 1 (978)568-0451, (800)225-9228
Fax: 1 (978)568-0680

CAGE CODE: 50541

Manufacturer: [Honeywell International, Inc.](#)
Street Address: 15001 N.E. 36th Street
P.O. Box 97001
City, State, Zip Code: Redmond, Washington 98073-9701

Phone: (425)885-8226
Fax: (206)883-2104

CAGE CODE : 0YFP0

Manufacturer: [ITT Cannon](#)
Street Address: 666 E. Dyer Road1851 E Deere Avenue
City, State, Zip Code: Santa Ana, CA 92705-5612

Phone: (714)557-4700
Fax: (714)628-8362

CAGE CODE: 71468

Manufacturer: [Leach International](#)
Street Address: 6900 Orangethorpe Avenue
City, State, Zip Code: Buena Park, CA 90620-1351

Phone: (631)244-1490
Fax: (631)244-1487

CAGE CODE: 58657, 00614

Manufacturer: [Minco Products, Inc.](#)
Street Address: 7300 Commerce Lane
City, State, Zip Code: Minneapolis, MN 55432-3113

Phone: (763)571-3121
Fax: (763)571-0927

CAGE CODE: 09359

Manufacturer: [Measurement Specialties \(Formerly as YSI Temperature\)](#)
Street Address: 2670 Indian Ripple Road
City, State, Zip Code: Dayton, OH 45440

Phone: (937)427-1231
Fax: (937)427-1640

CAGE CODE: 1L9U5

Manufacturer: [Ohmite \(Formerly as Victoreen, Inc\)](#)
Street Address: 1600 Golf Rd., Suite 850
City, State, Zip Code: Rolling Meadows, IL 60008

Phone: (847)258-0300, 1(866)964-6483
Fax: 1(847)574-7522

CAGE CODE: 63060

Manufacturer: [Positronic Industries, Inc](#)
Street Address: 423 N. Campbell Avenue
PO Box 8247
City, State, Zip Code: Springfield, MO 65806-1007

Phone: (417)866-2322, (800)641-4054
Fax: (417)866-4115

CAGE CODE: 28198

Manufacturer: [Sensata Technologies Inc. \[Formerly Control Products of Texas Instruments\]](#)
Street Address: 529 Pleasant Street
City, State, Zip Code: Attleboro, MA, 02703 – 2421

Phone: (508)236-3528
Fax: (508)236-1598

CAGE CODE: 82647

Manufacturer: [Souriau USA Inc \[Formerly Framatome Connectors, Inc.\]](#)
Street Address: 25 Grumbacher Road
City, State, Zip Code: York, PA, 17406-8417

Phone: (717)718-2662
Fax: (717)505-5953

CAGE CODE: 09922

Manufacturer: [Tayco Engineering, Inc.](#)
Street Address: 10874 Hope Street
City, State, Zip Code: Cypress, CA. 90630

Phone: (714) 952-2240
Fax: (714) 952-8733

CAGE CODE: 50422

Manufacturer: [Tyco Electronics/AMP, Inc.](#)
Street Address: 2901 Fulling Mill Road
City, State, Zip Code: Middletown, PA 17057-3163, US

Phone: (800)468-2023
Fax: (717)986-3611

CAGE CODE: 11532

Manufacturer: [Tyco Electronics - CII](#)
Street Address: P.O. Box 520
Route 74 East
City, State, Zip Code: Fairview, NC 28739

Phone: (828)338-1000, (800)806-0480, (800)522-6752
Fax: (828)338-1103

CAGE CODE: 00779

Manufacturer: [Teledyne Relays](#)
Street Address: 12525 Daphne Avenue
City, State, Zip Code: Hawthorne, CA 90250

Phone: (323)777-0077, (800)284-7007
Fax: (323)241-1287, (323)241-1288

CAGE CODE: 58614

Manufacturer: [Wilbrecht LEDCO, Inc.](#)
Street Address: 155 Waibel Dr.
City, State, Zip Code: Huron, SD 57350

Phone: Sale Representative: (651) 659-0919
Phone : Manufacturing Plant: (605) 352-7300
Fax: Sale Representative: (651) 659-9204
Fax : Manufacturing Plant: (605)352-1624
CAGE CODE: 0KUU5
