Introduction

Select Search Type To Begin

**National Stock Number (NSN) Information**

Pin Point Coherent View® Portal provides users with complete information about National Stock Numbers. Information from over 20 different Government databases has been compiled into an easily searchable Coherent View.

- Parametric Search
- Batch Query

**FedBizOpps (FBO) Information/Subscriptions**

Pin Point provides users the ability search and subscribe to Federal government procurement opportunities (FBO) awards, notices, pre-solicitations and solicitations.

**Commercial And Government Entity (CAGE) Information**

Information from the Central Contractor Registry (CCR), Small Business Administration (SBA) and Federal Logistics Information Systems’ H4H8 CAGE database are all incorporated into a single view.

**Part Information**

Pin Point contains part information from the biggest government parts portals GSA Advantage and DOD EMALL. Wealth of knowledge combined with the XSB Master Datafile PinPoint gives an unprecedented view of the Government supply chain.
Design Objectives

• Integrate with DPMP
• Acquire parts data from any source
• Discover sources on Government Portals
• Transform commercial part descriptions to the FLIS ECCMA attribute schema
• Provide Parametric Search and Comparison
Parts Selection Order of Preference

- Parts meeting Government requirements
- Industry standard parts from DOD adopted non-government standards
- MIL and Government standard parts
- DOD commonly available parts
- Industry standard parts from other non-government standards
- Commonly available manufacturer part numbers.
How hard can part selection be?

...Different sources describe the SAME thing differently

Commercial Parts for NSN 6135 009002139 on DoD EMALL

NSN: 6135009002139
EVEREADY BATTERY CO INC
EN22

... 191 catalog entries
Eveready EN22 with more than 30 different spellings
MDF Extraction Processes

Product properties are extracted and standardized to a uniform format

Enables attribute based searching

Allows for comparison and identification of equivalent items

Microcircuit Part Number
Device Type

80012 01 JX

DSCC Drawing

Case Code:

J - INCLOSURE MATERIAL - CERAMIC
J - INCLOSURE CONFIGURATION - DUAL-IN-LINE (DIP)
J - TERMINAL TYPE AND QUANTITY - 24 PRINTED CIRCUIT
J - OVERALL LENGTH - 1.155 INCHES MINIMUM - 1.290 INCHES MAXIMUM
J - OVERALL HEIGHT - 0.345 INCHES MINIMUM - 0.425 INCHES MAXIMUM
J - OVERALL WIDTH - 0.516 INCHES MINIMUM - 0.646 INCHES MAXIMUM

....
Summary

• Comprehensive view of Government Part Data – NSNs and Portals
• Expanding source of commercial catalog data
• Standardized attributes makes parametric search easy
• Available at no cost to Government users through the DPMP
Auxiliary Slides
Pin Point

Microcircuit Methodology

1) Data Acquisition

Attributes were enhanced for 4,683 Microcircuit NSNs using TI and DSCC part number logic.

2) Classification

3) Extraction

Information on 2,724 operational and instrumentation amplifier parts were harvested from Analog Devices using Xrover®. (NSNs and Commercial parts)
Proposed Architecture

Parametric search user interface invokes parametric search engine by passing query parameters and getting a sorted list of results.

The parametric search engine should try to achieve maximum precision and efficiency in results generation. In order for the engine to maximize precision data it queries needs to be adhering to a single scheme, e.g. enhanced FCS ontology. The architecture picture describes information sources that the engine relies on. Information may either be pulled from accessible sources or provided by parts providers that implement a required communication protocol (like ISO8000).

Providers able to implement this protocol subscribe to a directory of data providers to be queried and provide necessary parameters, like products domains for data, possibly user restrictions (e.g. non-DoD users cannot see some data).

• Arrows pointing in both directions in the picture are shown for data providers implementing that protocol.

• Arrows in a single direction are shown when it is decided that a certain data source (or a multitude of them) contain data of interest. However that data source does not implement the specified communication protocol. Then data from this source can be obtained in a different way. For example, intelligent web crawlers can periodically collect product information from OEM or distributor web sites, or data extract can periodically be obtained from DoD legacy data sources.
Demo NSNs

• 5995011767235 – DOD EMALL Suppliers
• 012448414 – tug elbow from Long Lead time microprs
• 5962011801681 – note that FLIS had 2 technical characteristics, an additional 16 were added by interpreting DSCC Part Number Logic
• 5962013539887 - did not have any FLIS TCs, 22 attributes were added by collecting info from Analog Devices. Note the semantic transformation of Analog Parametric Data to FLIS-ECCMA standards.
• Seal NSNs: 011640679, 015466042, 015466047
• GIDEP PN 293D106X9020C2T CAGE SH905 = NSN 5910014619038
Note, an additional source, Cooper Labs was discovered by mining free text of the PID.
Searching Government Portals

This item is available from 7 suppliers in 2 different portals...Many suppliers do not know which catalog items are associated to NSNs
FLIS catalogs 2 technical attributes for this NSN.

PinPoint extracts and infers additional technical attributes by interpreting DSCC PN information associated with the NSN.
## Parametric National Stock Number (NSN) Search

### Search Parameters:
- **INC - Item Name Code** equals 47946
- **RING OUTSIDE DIAMETER (ADE)** equals 0.142 INCHES
- **CENTER HOLE DIAMETER (ADYT)** equals 0.07 INCHES
- **ENVIRONMENT - MATTER** equals ACCEPTABLE FOR AQUEOUS

### Results (1 - 40 of 175):

<table>
<thead>
<tr>
<th>#</th>
<th>NSN/PN</th>
<th>Compare</th>
<th>Source</th>
<th>Item Name</th>
<th>FIIG</th>
<th>Criticality Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5331-00-874-2910 [WSIT]</td>
<td>✔️</td>
<td>DLA</td>
<td>O-RING (47946)</td>
<td>O-RING(A510X0)</td>
<td>X</td>
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<tr>
<td>2</td>
<td>NX352-70 5-187</td>
<td>✔️</td>
<td>PARKER HANNIFIN CORPORATION</td>
<td>O-RING (47946)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>NX352-70 5-051</td>
<td>✔️</td>
<td>PARKER HANNIFIN CORPORATION</td>
<td>O-RING (47946)</td>
<td></td>
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<tr>
<td>4</td>
<td>NW163-75 5-187</td>
<td>✔️</td>
<td>PARKER HANNIFIN CORPORATION</td>
<td>O-RING (47946)</td>
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<td></td>
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<tr>
<td>5</td>
<td>NW163-75 5-051</td>
<td>✔️</td>
<td>PARKER HANNIFIN CORPORATION</td>
<td>O-RING (47946)</td>
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<tr>
<td>6</td>
<td>NW163-75 5-187</td>
<td>✔️</td>
<td>PARKER HANNIFIN CORPORATION</td>
<td>O-RING (47946)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Download
### Results 1 - 15 of 15

INC - Item Name Code equals 31778 and MICROCIRCUIT, LINEAR and OPERATING TEMP RANGE (AFGA) MIN ≥ -55 DEG CELSIUS and OPERATING TEMP RANGE (AFGA) MAX ≤ 125 DEG CELSIUS and INPUT CIRCUIT PATTERN (CQZP) equals 1 CHANNEL and TERMINAL TYPE AND QUANTITY (TTQY) equals 8 PIN

<table>
<thead>
<tr>
<th>#</th>
<th>NSN/PN</th>
<th>Source</th>
<th>Item Name</th>
<th>FIIG</th>
<th>Criticality Code</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>5962-01-539-8620 [WSIT]</td>
<td>DLA</td>
<td>MICROCIRCUIT, LINEAR (31778)</td>
<td>MICROCIRCUIT_DEVICES(A458A0) X</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5962-01-536-4704 [WSIT]</td>
<td>DLA</td>
<td>MICROCIRCUIT, LINEAR (31778)</td>
<td>MICROCIRCUIT_DEVICES(A458A0) X</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>5962-01-473-5867 [WSIT]</td>
<td>DLA</td>
<td>MICROCIRCUIT, LINEAR (31778)</td>
<td>MICROCIRCUIT_DEVICES(A458A0) X</td>
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<tr>
<td>4</td>
<td>5962-01-459-9217 [WSIT]</td>
<td>DLA</td>
<td>MICROCIRCUIT, LINEAR (31778)</td>
<td>MICROCIRCUIT_DEVICES(A458A0) X</td>
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<tr>
<td>5</td>
<td>5962-01-455-7517 [WSIT]</td>
<td>DLA</td>
<td>MICROCIRCUIT, LINEAR (31778)</td>
<td>MICROCIRCUIT_DEVICES(A458A0) X</td>
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<td>6</td>
<td>5962-01-412-4764 [WSIT]</td>
<td>DLA</td>
<td>MICROCIRCUIT, LINEAR (31778)</td>
<td>MICROCIRCUIT_DEVICES(A458A0) X</td>
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<td>7</td>
<td>5962-01-397-1304 [WSIT]</td>
<td>DLA</td>
<td>MICROCIRCUIT, LINEAR (31778)</td>
<td>MICROCIRCUIT_DEVICES(A458A0) X</td>
<td></td>
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<td>8</td>
<td>5962-01-198-8899 [WSIT]</td>
<td>DLA</td>
<td>MICROCIRCUIT, LINEAR (31778)</td>
<td>MICROCIRCUIT_DEVICES(A458A0) X</td>
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<td>9</td>
<td>5962-01-189-9485 [WSIT]</td>
<td>DLA</td>
<td>MICROCIRCUIT, LINEAR (31778)</td>
<td>MICROCIRCUIT_DEVICES(A458A0) X</td>
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<td>10</td>
<td>ADS49LHZ</td>
<td>ANALOG DEVICES INC.</td>
<td>MICROCIRCUIT, LINEAR (31778)</td>
<td>MICROCIRCUIT_DEVICES(A458A0) X</td>
<td></td>
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<td>ADS49LH</td>
<td>ANALOG DEVICES INC.</td>
<td>MICROCIRCUIT, LINEAR (31778)</td>
<td>MICROCIRCUIT_DEVICES(A458A0) X</td>
<td></td>
</tr>
</tbody>
</table>
Parametric National Stock Number (NSN) Search

- **INC - Item Name Code**: equals **47946**
- **CROSS-SECTIONAL HEIGHT (AI)**: equals **0.139** INCHES
- **CENTER HOLE DIAMETER (ADYT)**: equals **3.734** INCHES
- **MATERIAL (MATT)**: equals **FLUOROCARBON**
- **SPECIFICATION**

Buttons:
- Submit Query
- Reset
- Clear

Results 1 - 6 of 6

INC - Item Name Code equals 47946::O-RING and CROSS-SECTIONAL HEIGHT (ADVN) equals 0.139 INCHES and CENTER HOLE DIAMETER (ADYT) equals 3.734 INCHES and MATERIAL (MATT) equals FLUOROCARBON and
### Part Information

**Part Number**: B0012 01 JX

**Search** [Cancel]

### Results 1 - 2 of 2

**FLIS: Reference Number Cage Data (Segment C)**

<table>
<thead>
<tr>
<th>NSN</th>
<th>Part Number</th>
<th>CAGE</th>
<th>Company Name</th>
<th>RNCC RNVC Combination Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>5962-01-180-1681 [WSIT]</td>
<td>B0012013X</td>
<td>16236</td>
<td>DEFENSE SUPPLY CENTER COLUMBUS</td>
<td>(3,2) The primary RN which is item identifying, assigned by a manufacturer, professional association or standard designator to identify an item of production.</td>
</tr>
<tr>
<td>5962-01-237-2286 [WSIT]</td>
<td>B0012013X</td>
<td>BW664</td>
<td>INTEL CORP</td>
<td>(3,2) The primary RN which is item identifying, assigned by a manufacturer, professional association or standard designator to identify an item of production.</td>
</tr>
</tbody>
</table>

**No Results Found**

**BSM: NSN Cage Part Number File**

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### Results 1 - 2 of 2

**CTDF: NSN Part Number File**

<table>
<thead>
<tr>
<th>NSN</th>
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