IHS Part Management Solution

발표자 : 박태우 차장

IHS **Parts Management Solutions**

Information Resources and Tools for the life of Your Products

Transforming component management into a driver for innovation and growth

Authorized Dealer in Korea

키티스産學硏情報(株)
KITIS Info. & Co., Ltd

Electronic parts

부품은 산업의 기초,
효율적 부품관리는 기업
이익 창출의 근간 !!!

자관이 생산, 관리하고 있는 부품들은

안녕하십니까?

- ◈ 부품은 건강하고 젊은 상태로 유지하고 계십니까?
- ◈ 환경에 저촉되는 위험한 부품을 보관 사용하고 계시지는 않습니까?
- ◈ 중복부품, 단종부품, 관리 누락 부품으로 인한 loss는 없으십니까?
- ◈ 개발 시 요구되는 부품의 Spec, 원자재, 환경 요인 분석 툴은 보유하고 계십니까?
- ◈ 전략적 구매를 위한 세계 각국의 제조사, distributor 정보를 실시간 파악하 실 수 있습니까?
- ◈ 범용부품들과 미래에 증가할 부품을 동시에 관리 할 수 있는 복안을 가지고 계십니까?
- ◈ 재고 파악이 가능한 솔루션을 도입하여 사용하고 계십니까?

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IHS Part Management Solution Customers

SIEMENS
Schneider Electric
EADS
ITT
BOEING
BAE SYSTEMS
ACTIA
ERICSSON
DIEHL
Vibro-Meter
Ball
Sun microsystems
stx Engine
DRS Technologies
BOMBARDIER
MBDA
ARINC
COBHAM
Galileo Avionica
SAMSUNG
THALES
LOCKHEED MARTIN
TELEPHONICS
Meggitt Avionics
FLIR
MEGGITT smart engineering for extreme environments
NORTHROP GRUMMAN
DASSAULT AVIATION
indra
GENERAL DYNAMICS
Raytheon
L3 communications
NASA
Lawrence Livermore National Laboratory
Rockwell Collins
THALES
LIG Nex1
Sagem SAFRAN Group
Honeywell
GOODRICH
Rolls-Royce
Sandia National Laboratories
SAAB
intel
LG-ERICSSON
NAVAIR
TEXTRON
Abbott
Parker
Astro-Med, Inc
COVIDIEN
PHILIPS sense and simplicity
IBM
KAI 한국항공우주산업주식회사 KOREA AEROSPACE INDUSTRIES, LTD.
NAVSEA
U.S. AIR FORCE
TOBYHANNA ARMY DEPOT
Whirlpool
Tektronix
PerkinElmer
GE Healthcare
3M
ROHDE&SCHWARZ
stryker
DSME
Schlumberger
GENERAL ATOMICS
zygo
CATERPILLAR
LACROIX
Zollner
JABIL
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AVAYA
ASML
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TELEDYNE TECHNOLOGIES INCORPORATED
HARRIS
BROCADE
RadiSys
ADC
Kodak
océ
BAE SYSTEMS
grass valley
Otis
PitneyBowes
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EMERSON
Panasonic
SEL SCHWEITZER ENGINEERING LABORATORIES
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IHS Part Management Solution 주요 특징

✓ **세계 최대의 전자부품 DB**

- 독보적인 부품 Coverage

✓ **다양한 부품 정보**

- 수급현황, 가격, 대체 부품, 환경규제 정보, 위조 부품 경고, 부품 수명 예측, FMD 등

✓ **다양한 Tool 제공**

- BOM Managing, BOM Reporting, CPL Managing

✓ **업계 최고의 신뢰도**

- 1,400여명 이상의 애널리스트 들과, 250여명 이상의 컨설턴트들이 참여하는 신뢰성 높은 정보. 부품 수명 예측 정확도 85% 이상 (업계 최고)

Database Statistics

Total Parts	**480,429,486**
Electronics/Passives	408,964,024
Electro-Mechanical	41,454,455
Fasteners*	30,011,007
Parts with Environmental	396,864,701
Supported Mfrs	500
Limited Support Mfrs	924
Total Mfrs	4,264
Parts with PCN Notices	23,703,592
Discontinued Parts	49,999,410
Parts with EOL status	8,166,791
*Add'l Subscription Rqd	

Previous Month's Updates

Parts Added	2,661,788
Parts Updated	31,768,407
Parts with PCN Notices	1,078,190
Parts with EOL Notices	104,544
New Attachments (Docs)	19,103

All information you need

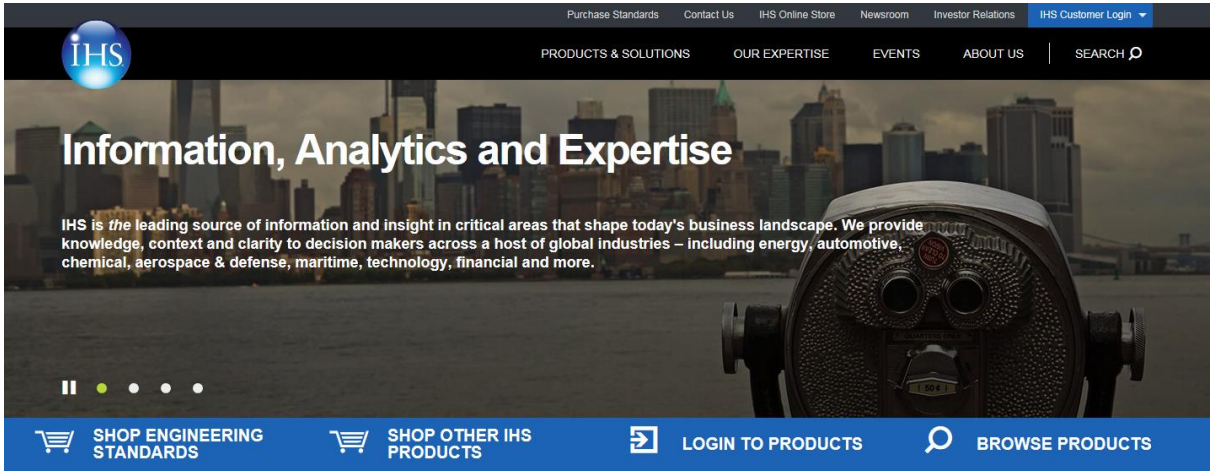
- BOM Managing
- BOM Reporting
- Corporate Part Managing
- Alternates Parts
- Environmental Materials

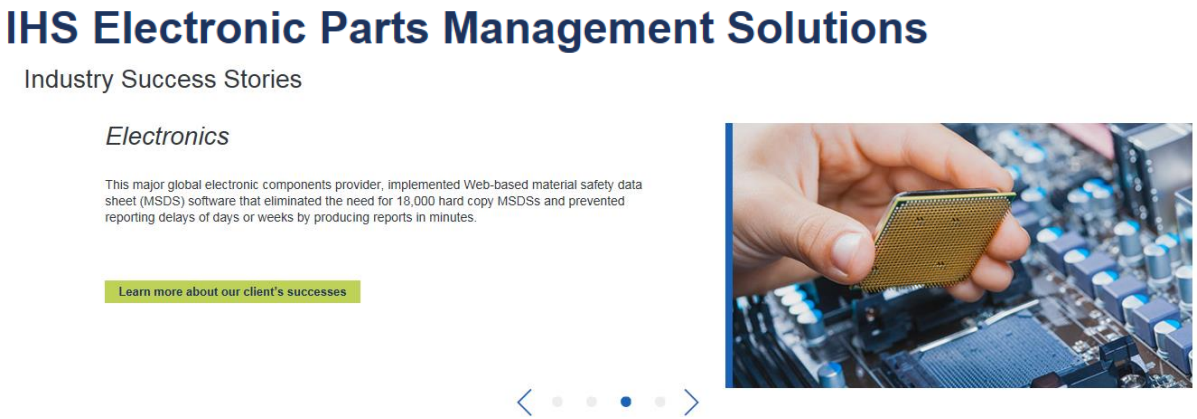
IHS parts management solution

- Parts Lifecycle
- Authorized Distributors
- Pricing & Availability
- Haystack /DoD Logistics
- IHS Electronics 360 market trend

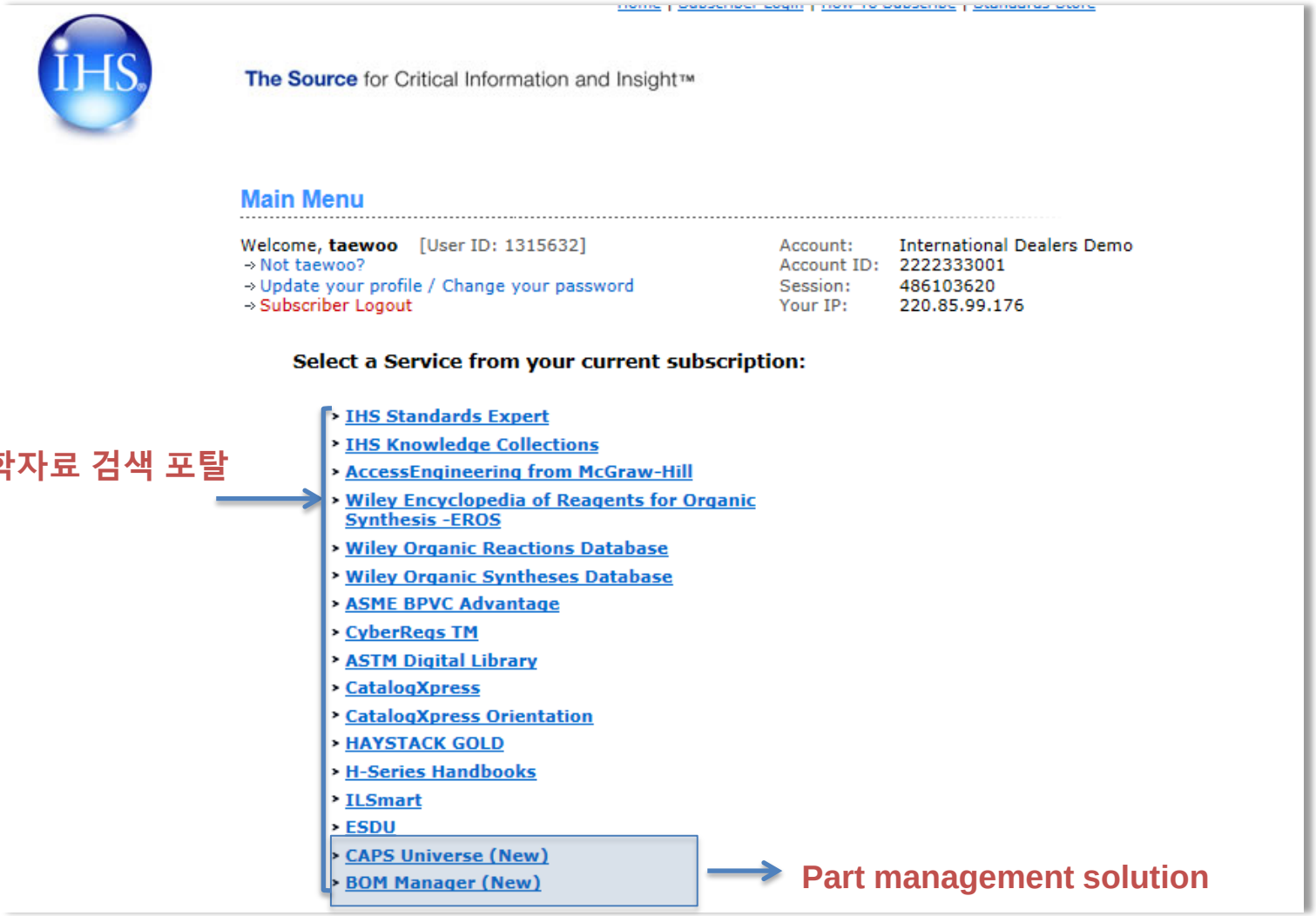
www.ihs.com

1959년 이래 top class 산업 정보, 솔루션 제공





IHS Engineering Resource Center



다양한 공학자료 검색 포탈

Part management solution

IHS parts solution Start page

IHS 4DOnline
BOM Manager

Home Part Search

Welcome to BOM Manager

About the Start Page
Not sure where to get started? Common tasks and workflows are organized below to help you get started if you are new to BOM Manager or if you need a quick refresher. You can set your preferred login page in User Preferences.

I want to...

BOMs
- Import BOM (Wizard)
- Import BOM (Classic)
- View BOM Vault (Folders)
- View BOM Vault (Details)
- Additional BOM Help

Reporting
- Create Standard Report
- Create Advanced Report
- View Reports History
- Additional Report Help

Alerts
- Today
- Week
- All
- filter by (intldeal)

Part Search
- Search for Parts
- Search for Documents
- Where Used (Parts on BOMs)

My Dashboard
- View Home Page
- View BOM Vault (Listing)
- View Matching Status

Other Tasks
- View Mfr Knowledge Base
- View Part Knowledge Base
- Move BOMs
- User Preferences

Learn More
- Whats New
- IHS Customer Care
- Quick Start Guide
- User Guide

Corporate Part List
- Search
- Manage
- View

BOM Managing – flat BOM file

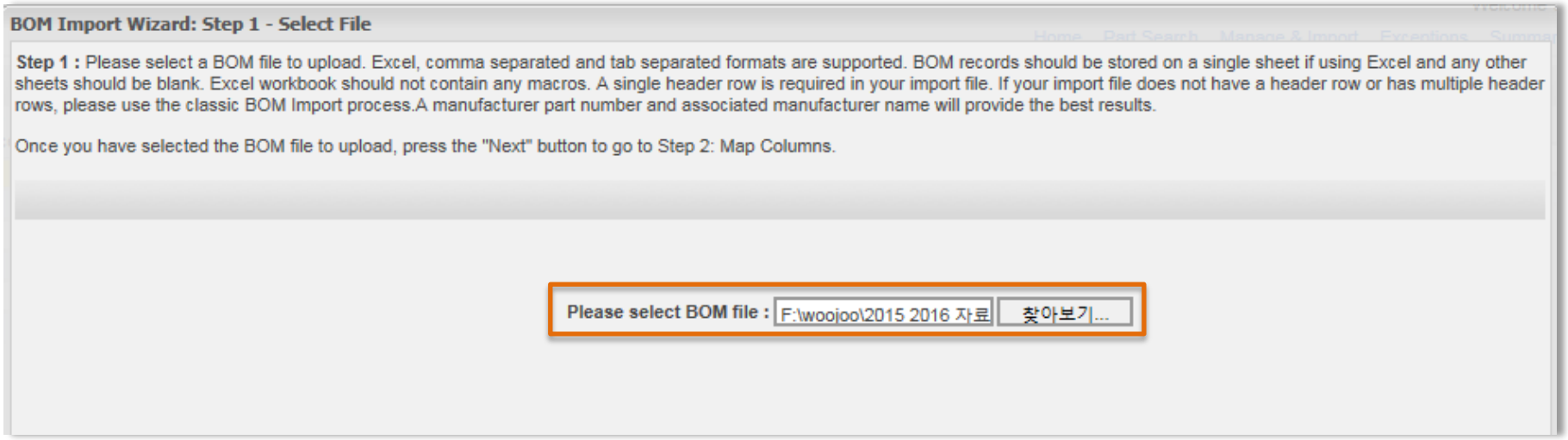
자관 BOM의 최신성 유지, 효용성 평가를 위한 파일 업로드

Internal PN	Part Number	Mfr Name	Part Description	Quantit	Inventory
A123456-001	ECJ-1VB0J105K	PANASONIC CORP	CAPACITOR, CERAMIC, MULTILAYER, 6.3V, X5R, 1uF, SURFACE MOUNT, 0603	1	SS400+HZFC-D
A123456-002	ECJ-1V41E105M	PANASONIC CORP	CAPACITOR, CERAMIC, MULTILAYER, 25V, X5S, 1uF, SURFACE MOUNT, 0603	1	SS400
A123456-009	LMK107BJ475KA-T	TAIYO YUDEN CO LTD	CAPACITOR, CERAMIC, MULTILAYER, 10V, X5R, 4.7uF, SURFACE MOUNT, 0603	1	SS400+HZFC-D
A123456-009	GRM188F51A475ZE20D	MURATA MANUFACTURING (	CAPACITOR, CERAMIC, MULTILAYER, 10V, Y5V, 4.7uF, SURFACE MOUNT, 0603	1	SS400
A123456-004	GRM188F51C684ZA01D	MURATA MANUFACTURING (	CAPACITOR, CERAMIC, MULTILAYER, 16V, Y5V, 0.68uF, SURFACE MOUNT, 0603	1	SUS439 1.2t
A123456-005	C0603X7R500-333KNE	VENKEL LTD	CAPACITOR, CERAMIC, MULTILAYER, 50V, X7R, 0.033uF, SURFACE MOUNT, 0603	19	SUS409 1.2t
A123456-005	GRM188R71H333KA61D	MURATA MANUFACTURING (	CAPACITOR, CERAMIC, MULTILAYER, 50V, X7R, 0.033uF, SURFACE MOUNT, 0603	1	SUS439 1.2t
A123456-007	CX0603MRX7R8BB223	YAGEO CORP	1 FUNCTIONS, 25V, FEED THROUGH CAPACITOR	1	SUS409 1.2t
A123456-008	0603ZC103MAT2A	AVX CORP	CAPACITOR, CERAMIC, MULTILAYER, 10V, X7R, 0.01uF, SURFACE MOUNT, 0603	1	SUS439 1.2t
A123456-010	0603YC103KAT2A	AVX CORP	CAPACITOR, CERAMIC, MULTILAYER, 16V, X7R, 0.01uF, SURFACE MOUNT, 0603	3	SUS409 1.2t
A123456-011	ECJ-1VB1A225K	PANASONIC CORP	CAPACITOR, CERAMIC, MULTILAYER, 10V, X5R, 2.2uF, SURFACE MOUNT, 0603	1	SUS409 1.2t
A123456-003	5558067-1	KEMET	CAP CER 22PF 50V NPO 0603	1	SUS410
A123456-010	A1234567	KEMET	CAP CERAMIC 33PF 50V NPO 0603	1	SUS439 1.2t
A123456-011	ECQ-P1H471JZW	PANASONIC	CAP POLYPRO .00047UF 50V 5%	1	SUS409 1.2t
A123456-012	C0603C101J5GACTU	KEMET	CAP CERAMIC 100PF 50V NPO 0603	1	SUS439 1.2t
A123456-013	GRM1885C2A201JA01D	MURATA	CAP CER 200PF 100V 5% COG 0603	1	SUS409 1.2t
A123456-014	GRM1885C2A181JA01D	MURATA	CAP CER 180PF 100V 5% COG 0603	1	SUS439 1.2t
A123456-015	C0603C102K5RACTU	KEMET	CAP 1000PF 50V CERAMIC X7R 0603	1	SUS409 1.2t
A123456-016	ECJ-1VB0J106M	PANASONIC - ECG	CAP CERAMIC 10UF 6.3V X5R 0603	1	SUS439
A123456-017	T495D477K006ATE100	KEMET	CAP TANT 470UF 6.3V 10% SMD	3	SUS409
A123456-018	CMPD914	CENTRAL SEMI	DIODE FAST SWITCH 100V SOT23 CMPD914	1	SUS439
A123456-019	MMSZ5263BT1	ON SEMICONDUCTOR	DIODE ZENER 500MW 56V SOD123	4	SUS409
A123456-020	FJH1100	FAIRCHILD	DIODE ULTRA LOW LEAK 250MW DO-35	2	SUS409
A123456-021	5558067-1	AMP	CONN MOD JACK 10-10 R/A SHLD PCB	11	SUS439
A123456-022	3547	KEYSTONE	TERM PC QF .250X.032" FEM HORZ	2	SUS409
A123456-023	CBC3225T100MR	TAIYO YUDEN	INDUCTOR 10UH 20% 1210 SMD	1	SUS439
A123456-024	ELL-6RH470M	PANASONIC	COIL 47UH 500MA CHOKE SMD	1	SUS409
A123456-025	MMBT3904LT1G	ON SEMI	TRANS GP SS NPN 40V SOT23 MMBT3904	4	SUS409
A123456-026	BSS123	FAIRCHILD	MOSFET N-CH 100V 170MA SOT-23	1	Silicon

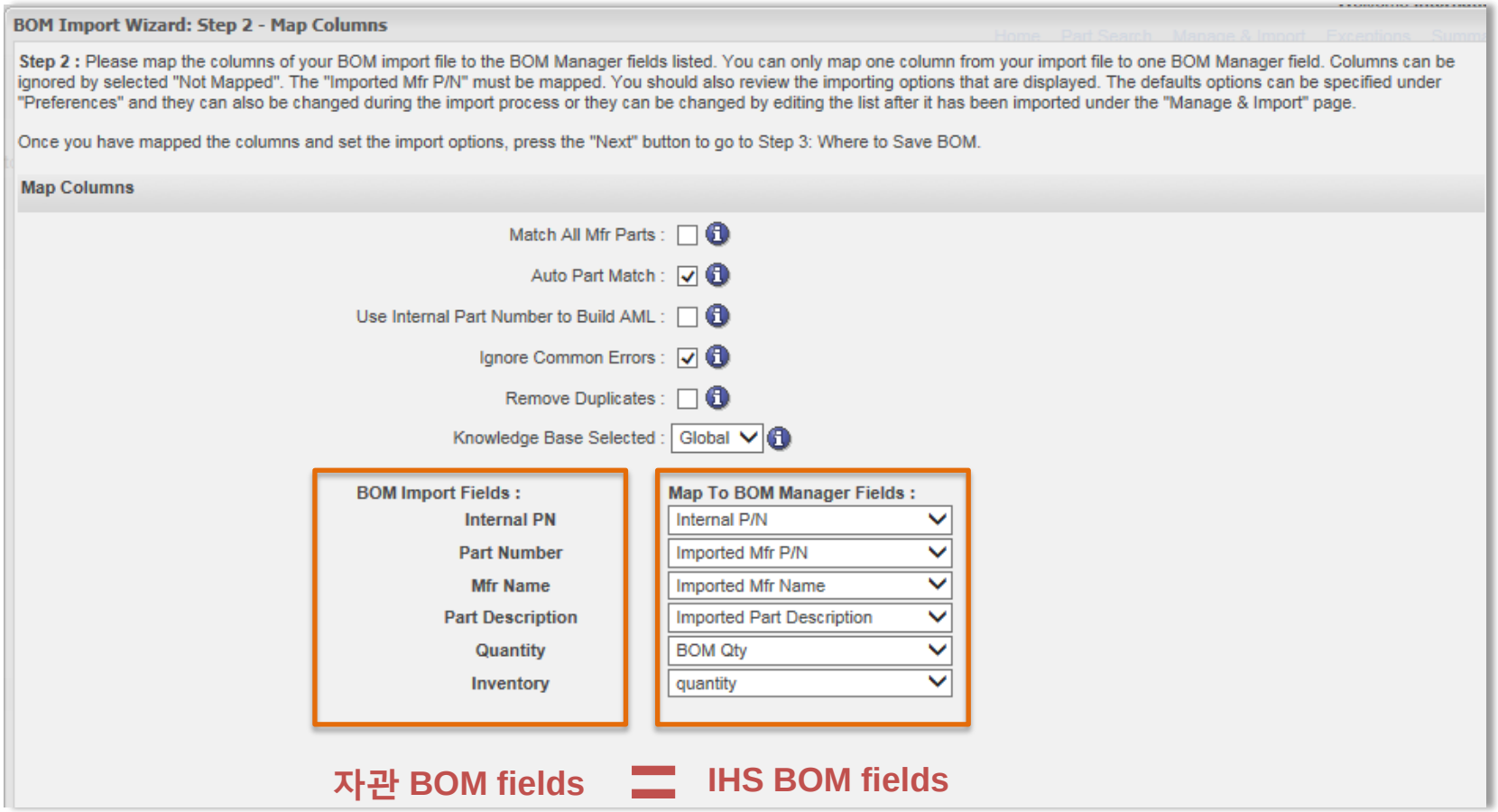
BOM Managing - Import

보유 BOM을 Import, Mapping해서 IHS가 구축한 고유의 ED와 MATCHING 작업

경로 : "Import Wizard"<위자드 방식> or "Add BOM"<클래식 방식>



BOM Managing – Map columns



자관 BOM fields = IHS BOM fields

BOM Managing – Process

Columns Mapping 후 IHS가 구축한 고유의 ED와 MATCHING process

* Matching background : IHS CAPS UNIVERSE ED – 4억8천만개 parts, 4200개 manufacturers, KB

IHS 4DOnline
BOM Manager

BOM Import Status

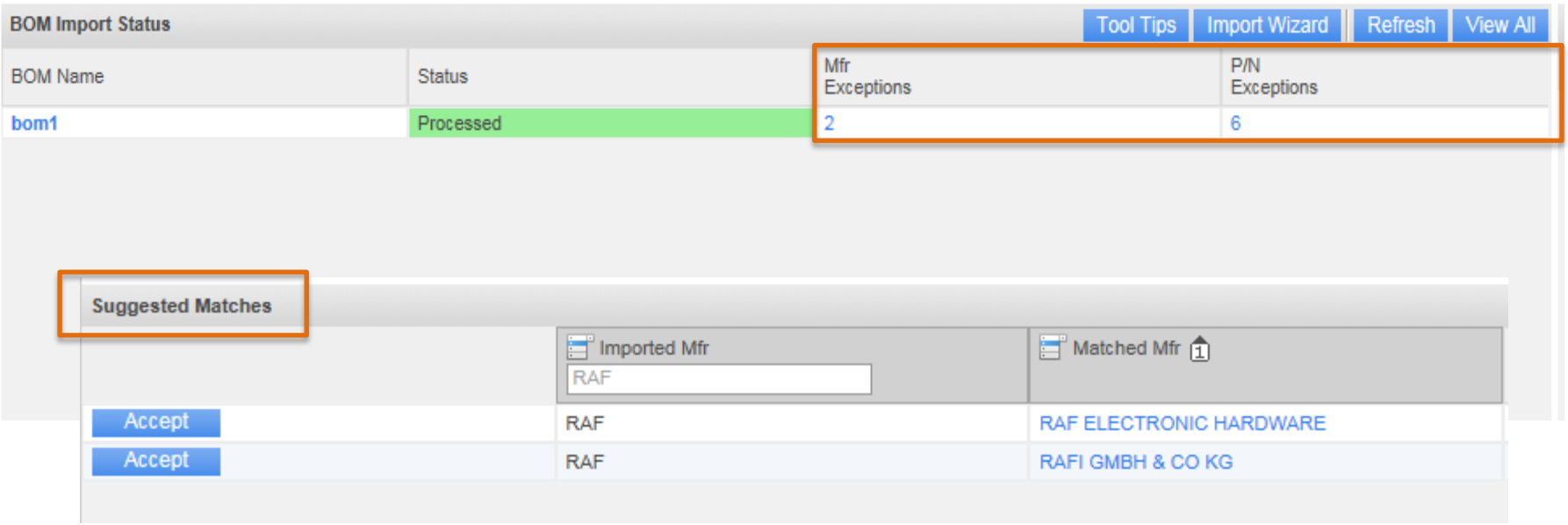
Tool Tips | Import Wizard | Refresh | View All

BOM Name	Status	Mfr Exceptions	P/N Exceptions
seminar	Processed	3	4
seminar KITIS	Processed	0	0
GSI2	Processed	0	0
GSI_Sample	Processed	0	0
GSI	Processed	0	0
aizawa	Processed	0	0
RK AML Demo	Processed	0	0
RK Biz Dec 14	Processed	0	0
RK Dec 14	Processed	0	0

BOM Managing – Exceptions & Suggested Match

추가 Matching의 여지가 있는 부품 표시 -> Suggested Matechs를 통해 유저가 맞는 제조사를 선택, 재 matching 시키는 기능.

Matching율 극대화



BOM Managing – Summary

BOM Summary

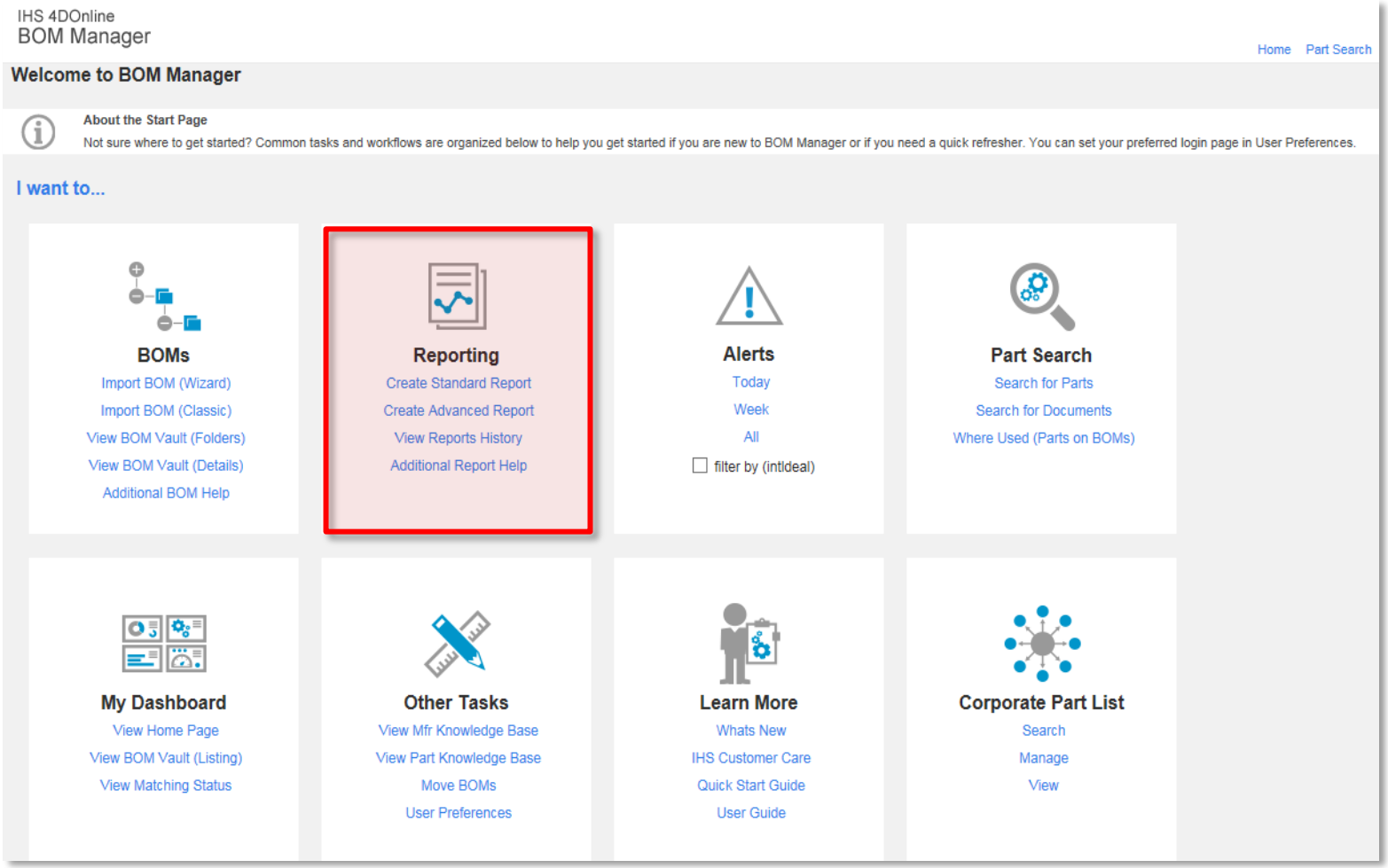
BOM Name	Total	Not Matched	Unknown	Sub-Assemblies	Discontinued Total	Discontinued Unique	Discontinued With Alts	Discontinued Without Alts	EOL Total	EOL Unique
seminar	175	11	0	0	19	19	16	3	1	1
seminar KITIS	175	7	0	0	19	19	16	3	1	1
GSI2	9	0	0	0	0	0	0	0	9	7
GSI_Sample	9	0	0	0	0	0	0	0	9	7
GSI	7	0	0	0	0	0	0	0	7	7
aizawa	18	2	0	0	0	0	0	0	0	0

Clear Sort 1 to 25 of Count

Active Total	Active Unique	Active SS	Active MS	Contact Mfr Total	Contact Mfr Unique	Assembl Health	RoHS Nc Compliant	REACH Compliant	Modified Date	BOM Path
142	138	16	122	2	2	695.64	3	144	14-Jan-2016 21:43:05	KITIS(Sam
146	141	16	125	2	2	701.48	3	147	14-Jan-2016 21:15:19	KITIS(Sam
0	0	0	0	0	0	925	0	9	13-Jan-2016 23:10:32	PALTEK >
0	0	0	0	0	0	925	0	9	07-Jan-2016 00:25:29	PALTEK >
0	0	0	0	0	0	925	0	7	07-Jan-2016 00:11:00	PALTEK >
14	14	0	14	2	2	956.59	0	15	05-Jan-2016 19:21:03	PALTEK >

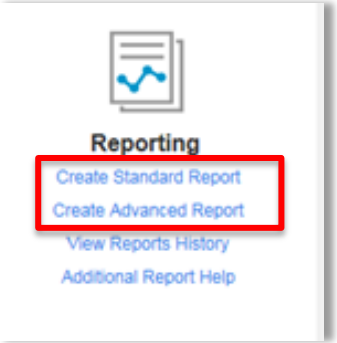
BOM Reporting

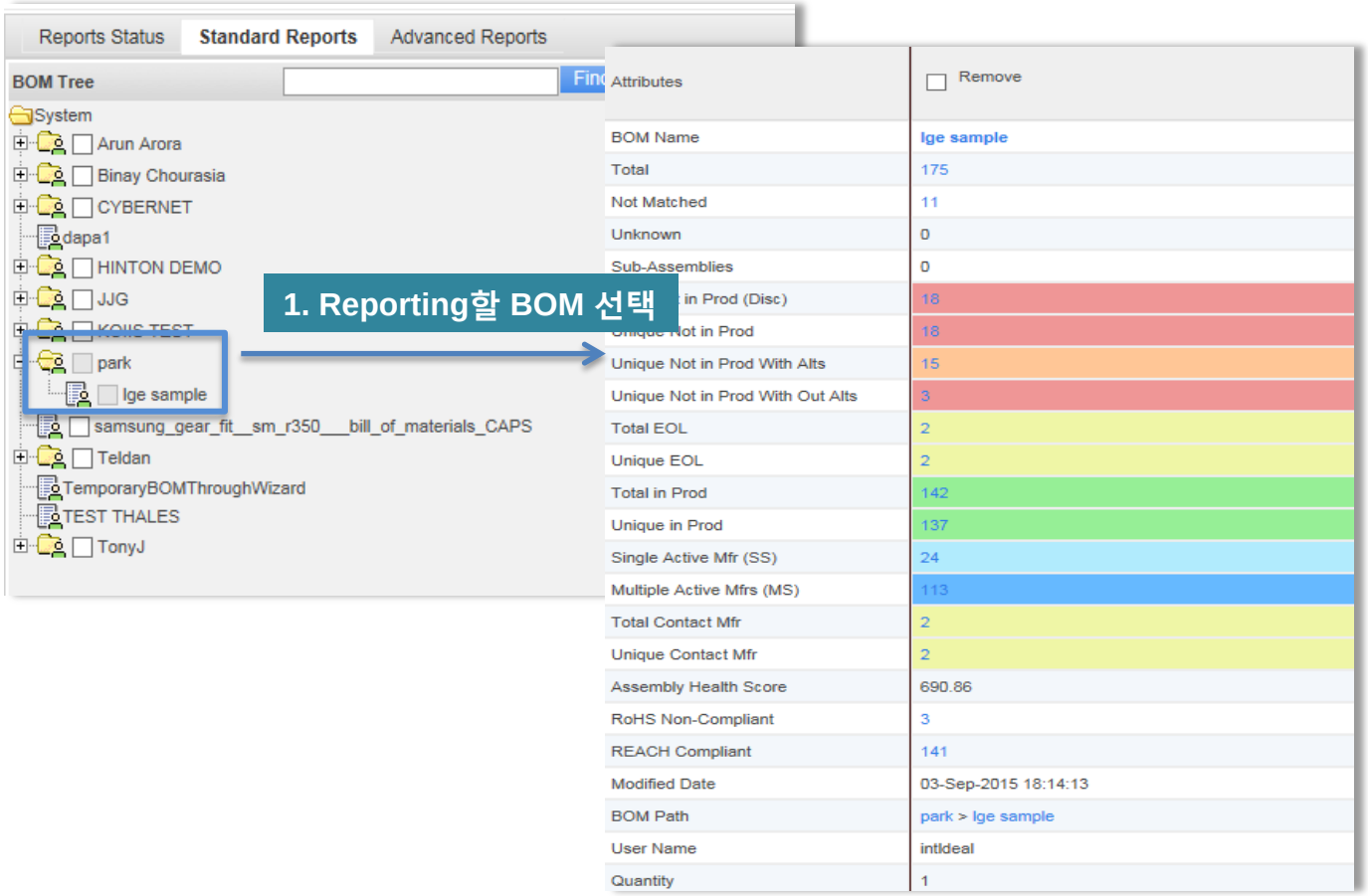
Managing 한 BOM을 reporting하는 기능



BOM Reporting

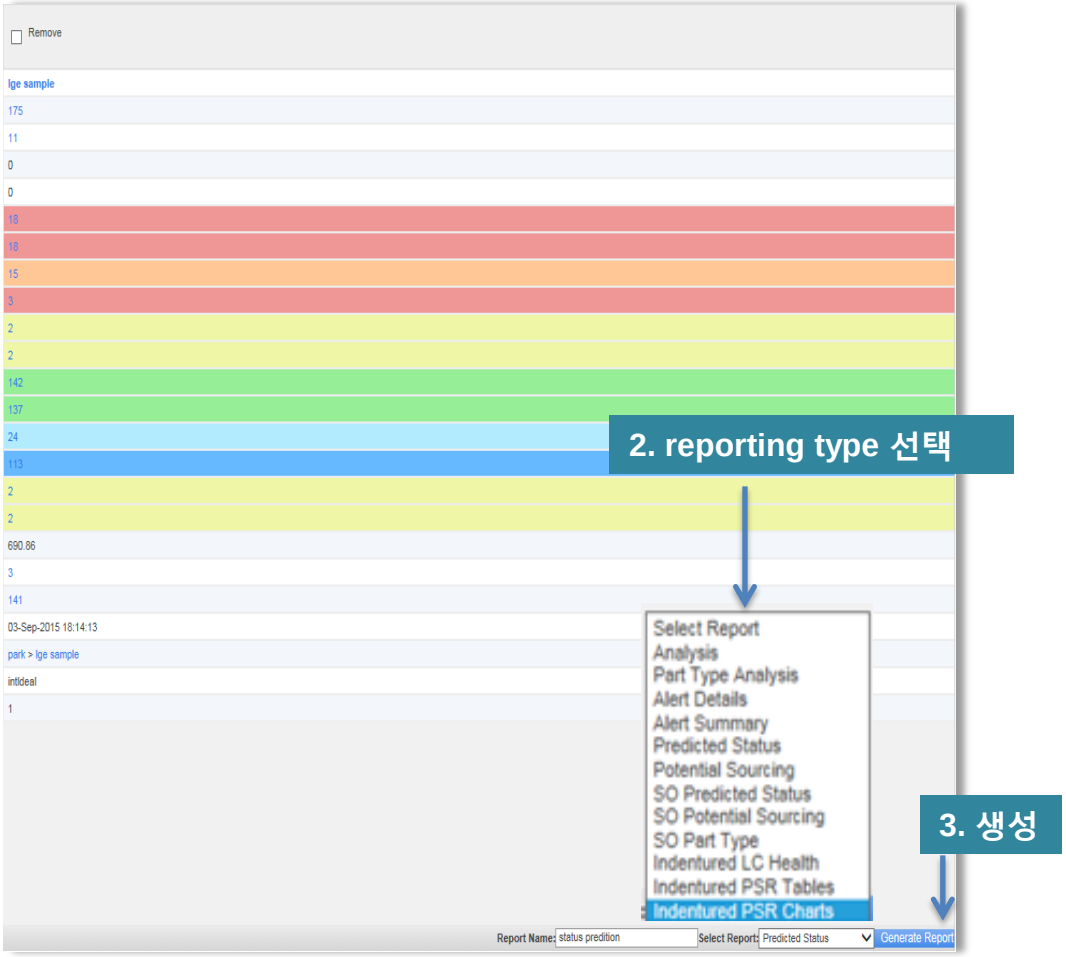
Standard Report





BOM Reporting

Standard Report ◄



BOM Reporting

▼ Standard Report

Reports History

Clear Sort

3. Status predition report 생성 완료

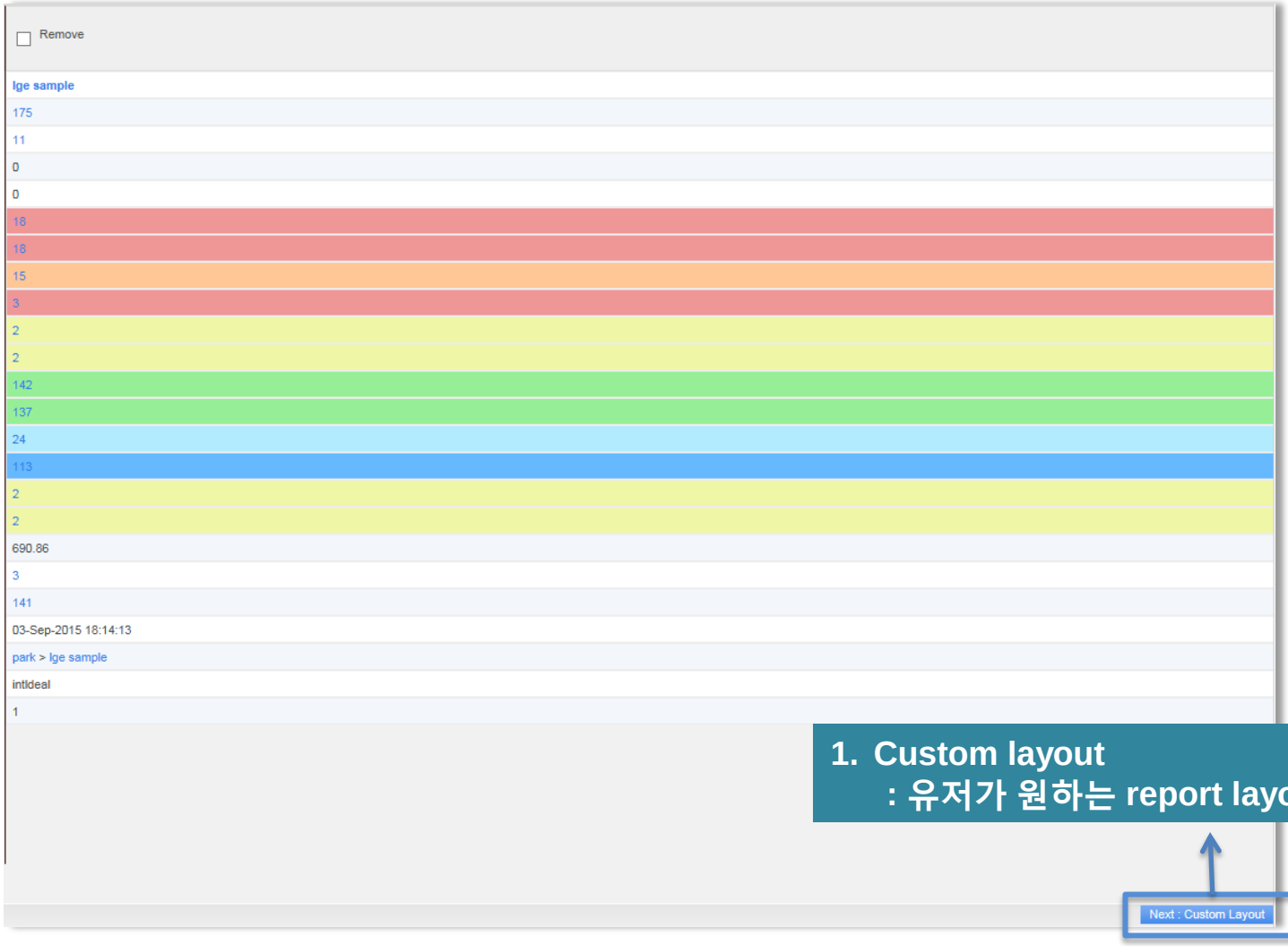
	Report Name			Report Type	Modified Date
☑	status predition [XLS] [ZIP]	Completed	intIdeal	PREDICTED STATUS	03-Sep-2015

4. 2/4/8년 후의 LC 변동 예측 ► 제조사 존재 여부 예측

1	Matched P/N	Matched Mfr	CAGE	Internal P/N	Part Description	QTY	QPEI	LCC	YTEOL	Current	Year 2 Status	Year 4 Status	Year 8 Status	LTB Date	
20	AD7927BRUZ-REEL	Analog Devices	24355, 34031	A123456-143	8-CH 12-BIT SUCCESSIVE APPROXIMATION ADC, SERIAL ACCESS, PDSO20	4		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
21	AD8005ARZ	Analog Devices	24355, 34031	A123456-065	OP-AMP, 50000uV OFFSET-MAX, PDSO8	13		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
22	AD8041ARZ-REEL7	Analog Devices	24355, 34031	A123456-062	OP-AMP, 8000uV OFFSET-MAX, PDSO8	3		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
23	AD8138ARZ	Analog Devices	24355, 34031	A123456-063	LINE DRIVER, PDSO8	2		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
24	AD8651ARZ	Analog Devices	24355, 34031	A123456-060	OP-AMP, 1700uV OFFSET-MAX, 50MHz BAND WIDTH, PDSO8	25		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
25	AD8655ARZ	Analog Devices	24355, 34031	A123456-061	OP-AMP, 550uV OFFSET-MAX, 28MHz BAND WIDTH, PDSO8	2		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
26	AD9244BSTZRL-40	Analog Devices	24355, 34031	A123456-151	1-CH 14-BIT FLASH METHOD ADC, PARALLEL ACCESS, PQFP48	1		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
27	ADG3308BRUZ	Analog Devices	24355, 34031	A123456-158	SPECIALTY INTERFACE CIRCUIT, PDSO20	1		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
28	ADG801BRTZ-500RL7	Analog Devices	24355,	A123456-147	1-CHANNEL, SGL POLE SGL THROW SWITCH,	1		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
29	ADM3202ARNZ							3.75	6.5	Single Source	Single Source	Single Source	Discontinued		park > lge sample
30	ADM6316DZ31ARJZ-R7	Analog Devices	24355, 34031	A123456-162	1-CHANNEL POWER SUPPLY MANAGEMENT CKT, PDSO5	12		3.75	6.5	Single Source	Single Source	Single Source	Discontinued		park > lge sample
31	ADR431ARZ	Analog Devices	24355, 34031	A123456-064	1-OUTPUT THREE TERM VOLTAGE REFERENCE, 2.5V, PDSO8	3		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
32	ADR431BRZ	Analog Devices	24355, 34031	A123456-156	1-OUTPUT THREE TERM VOLTAGE REFERENCE, 2.5V, PDSO8	7		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
33	ADSP-BF561SBBZ600	Analog Devices	24355, 34031	A123456-146	32-BIT, 600MHz, OTHER DSP, PBGA297	3		3.75	6.5	Multiple Source	Multiple Source	Multiple Source	Discontinued		park > lge sample
34	BSS123	Fairchild Semi	1HBD3, 07933, 59621, 7D893, 07263	A123456-026	170mA, 100V, N-CHANNEL, Si, SMALL SIGNAL, MOSFET	1		3.6	9.45	Multiple Source	Multiple Source	Multiple Source	Multiple Source		park > lge sample
35	C0603C101J5GACTU	Kemet	31433	A123456-012	CAPACITOR, CERAMIC, MULTILAYER, 50V, C0G, 0.0001uF, SURFACE MOUNT, 0603	1		3.86	8.5	Multiple Source	Multiple Source	Multiple Source	Multiple Source		park > lge sample
36	C0603C102K5RACTU	Kemet	31433	A123456-015	CAPACITOR, CERAMIC, MULTILAYER, 50V, X7R, 0.001uF, SURFACE MOUNT, 0603	1		3.86	8.5	Multiple Source	Multiple Source	Multiple Source	Multiple Source		park > lge sample
37	C0603X7R500-333KNE	Venkel	3EQW4	A123456-005	CAPACITOR, CERAMIC, MULTILAYER, 50V, X7R, 0.033uF, SURFACE MOUNT, 0603	19		3.86	8.5	Single Source	Single Source	Single Source	Single Source		park > lge sample

BOM Reporting

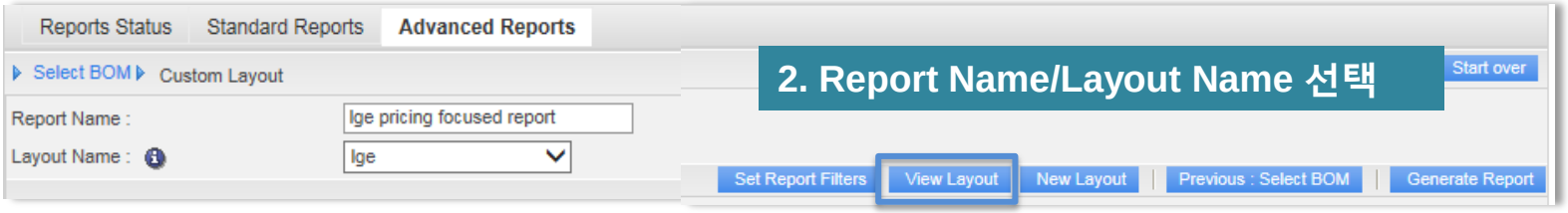
Advanced Report

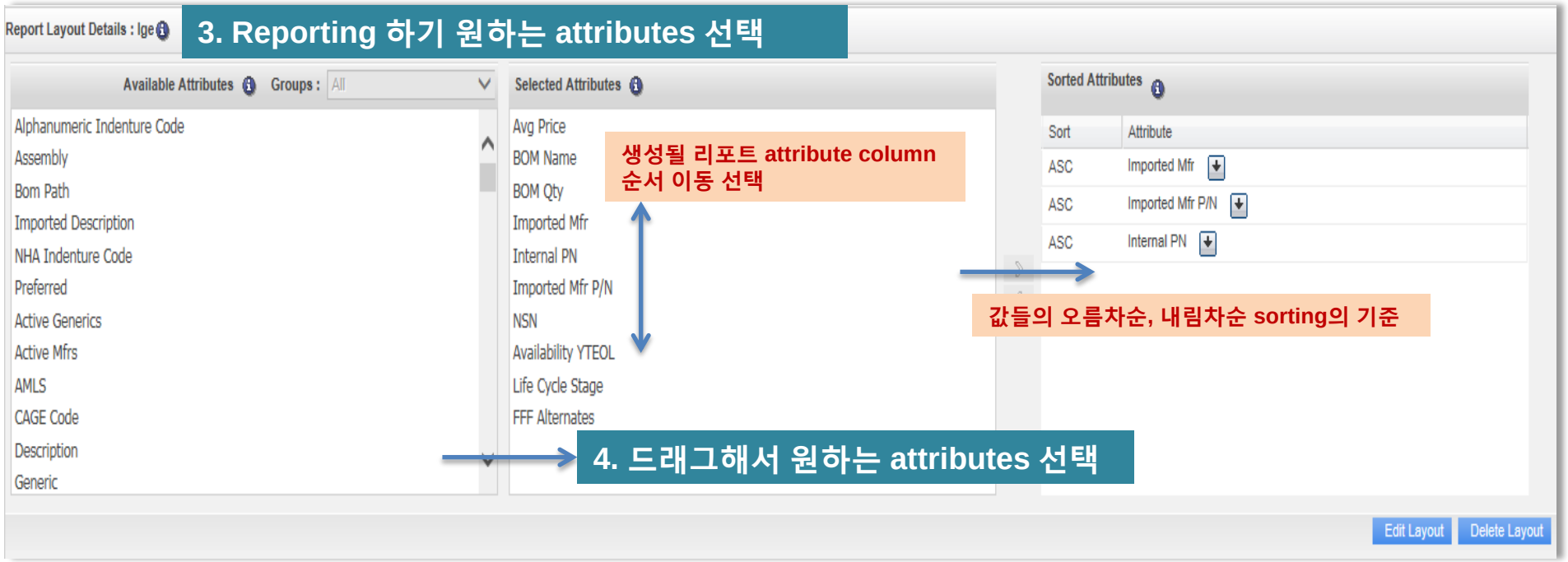


1. Custom layout
   : 유저가 원하는 report layout 만들기

BOM Reporting

Advanced Report





BOM Reporting

Advanced Report

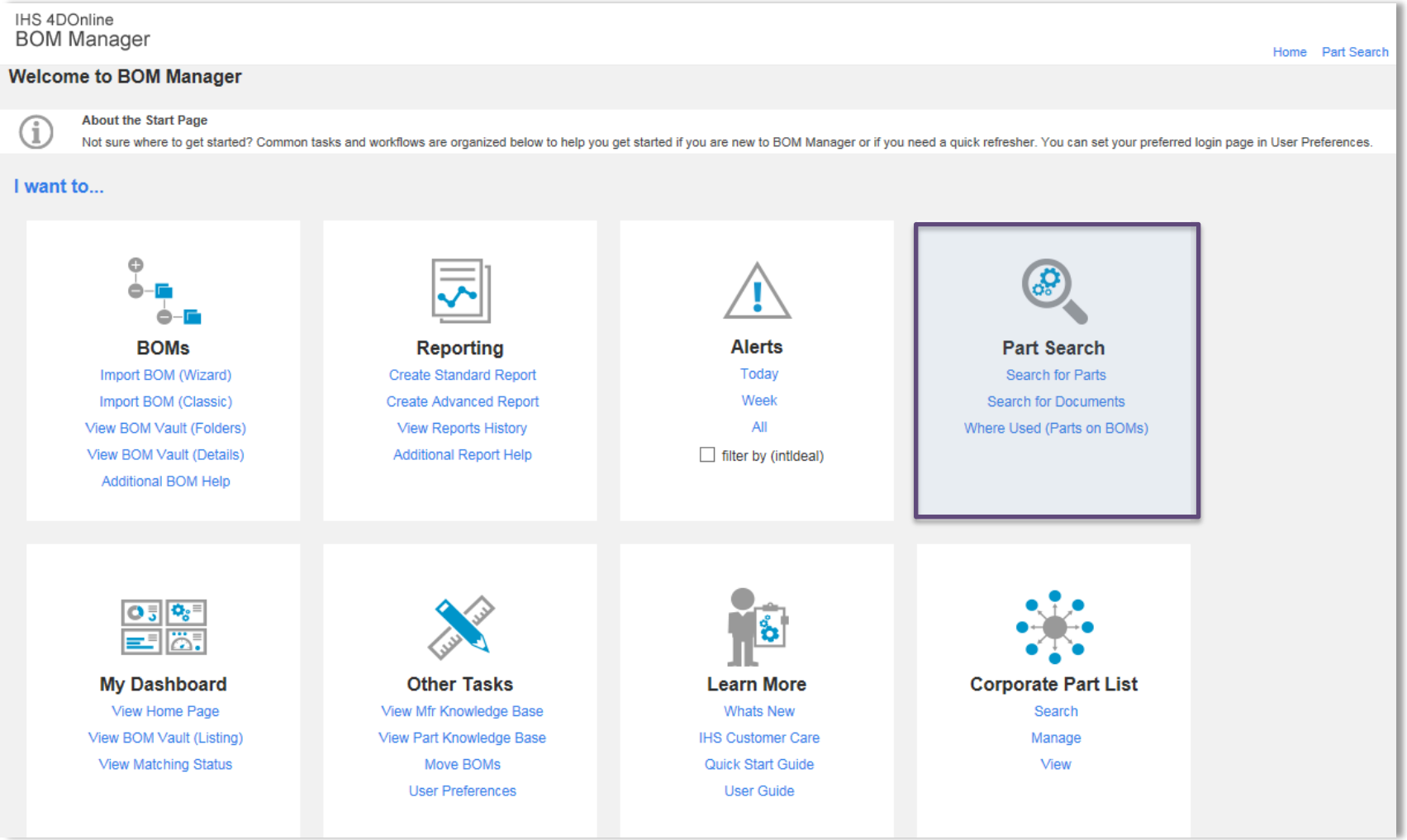
	Report Name	Report Status	Report Owner
☑	lge pricing focused report [XML] [CSV] [ZIP]		intIdeal

5. 리포트 생성

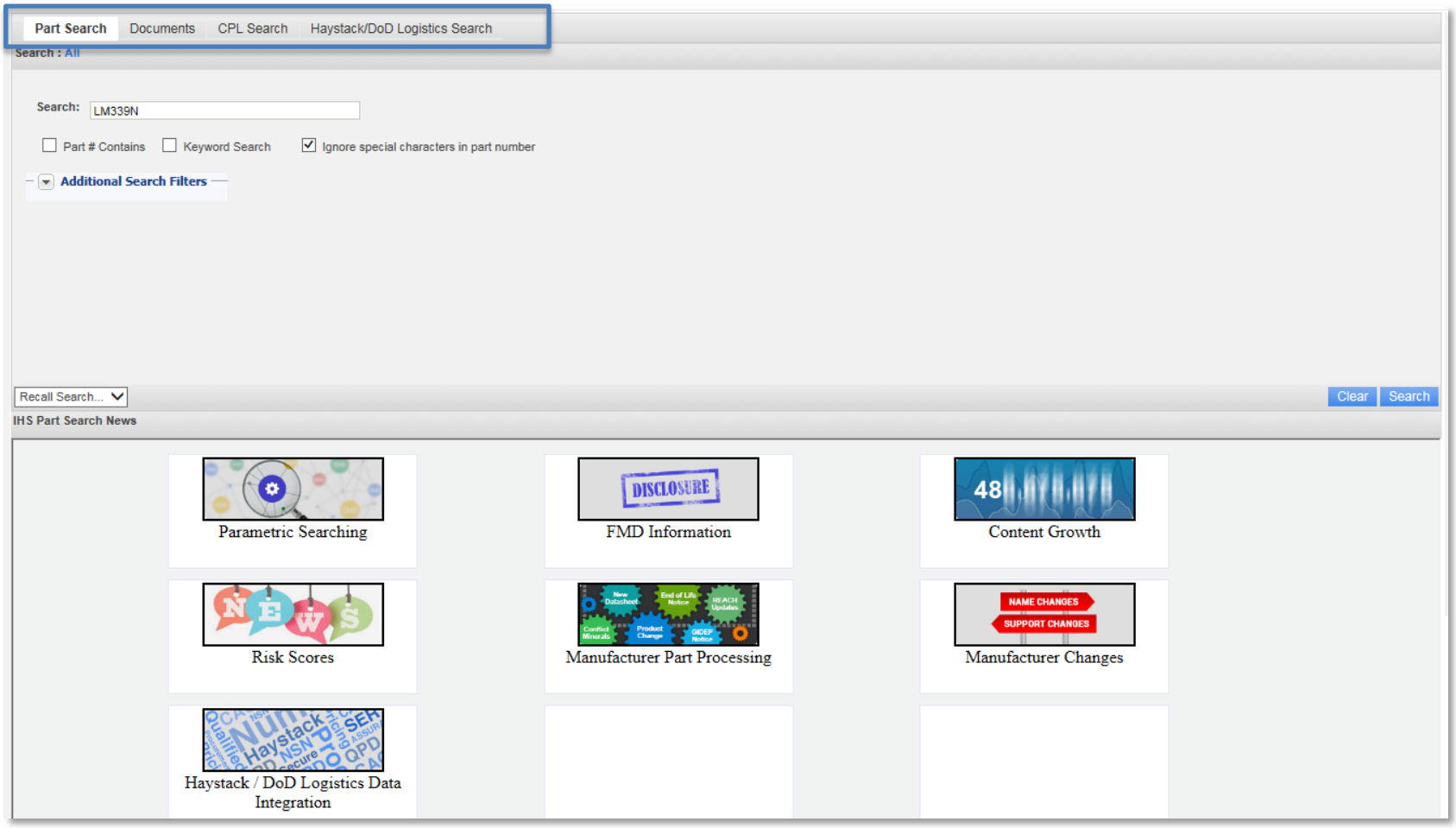
Avg Price	BOM Name	BOM Qty	Imported Mfr	Internal PN	Imported Mfr P/N	NSN	Availability YTEOL	Life Cycle Stage	FFF Alternates
0	lge sample	40	ADAM TECH	A123456-098	MTJ-1010FX1-FSD				
5.5595	lge sample	2	AMP	A123456-099	1-5747871-4				1-747871-4, TE
0.745	lge sample	1	AMP	A123456-094	5-146257-4				PEG08DS-HBR, Crane Conn 103240-4, TE
1.7797	lge sample	5	AMP	A123456-095	5-146257-7				1-03240-7, TE PEG14DS-HBR, Crane Conn
3.617	lge sample	11	AMP	A123456-021	5558067-1				
2.6984	lge sample	2	AMP	A123456-097	6-146257-0				1-103240-0, TE 1-146257-0, TE PEG20DS-HBR, Crane Conn
20.4393	lge sample	2	ANALOG	A123456-142	AD7763BSVZ-REEL		0	Discontinued	AD7763BSVZ, Analog Devices
4.9406	lge sample	4	ANALOG	A123456-143	AD7927BRUZ-REEL		4 - 8	Mature	AD7927BRUZ, Analog Devices AD7927BRUZ-REEL7, Analog Devices AD7927BRU, Analog Devices
3.8686	lge sample	3	ANALOG	A123456-062	AD8041ARZ-REEL7		4 - 8	Mature	AD8041ARZ, Analog Devices AD8041AR, Analog Devices AD8041ARZ-REEL, Analog Devices
29.7607	lge sample	1	ANALOG	A123456-151	AD9244BSTZRL-40		4 - 8	Mature	AD9244BSTZ-40, Analog Devices
4.0363	lge sample	1	ANALOG	A123456-158	ADG3308BRUZ		4 - 8	Mature	ADG3308BRUZ-REEL, Analog Devices ADG3308BRUZ-REEL7, Analog Devices
2.1871	lge sample	1	ANALOG	A123456-147	ADG801BRTZ		4 - 8	Mature	ADG801BRTZ-REEL,

6. 커스터마이징한 layout에 따라 리포트 생성

Parts searching



Parts searching – 4 ways



Parts search main category

6개 제품군, 45개 메인 카테고리

Semiconductors

- Active Filters (7,193)
- Amplifiers (123,594)
- Consumer ICs (73,507)
- Converters (401,234)
- Crystals/Resonators (8,735,830)
- Diodes (2,216,977)
- Fiber Optics (1,801,038)
- Interface ICs (124,696)
- Logic ICs (594,684)
- Memory ICs (1,368,295)
- Optoelectronics (2,171,480)
- Oscillators (7,510,788)
- Other Semiconductors (4,849,651)
- Programmable Logic ICs (171,349)
- RF/Microwave Devices (472,716)
- Regulators (866,521)
- Sensors/Transducers (1,424,512)
- Telecom ICs (124,470)
- Transistors (665,655)
- Trigger Devices (363,619)
- uPs/uCs/Peripheral ICs (845,057)

Passives

- Batteries (743)
- Capacitors (100,038,990)
- Circuit Protection Devices (539,252)
- Inductors (965,010)
- Passive Filters (301,186)
- Passive Networks (242,504)
- Resistors (257,742,531)
- Transformers (85,138)

Interconnects

- Board Connectors (23,336,976)
- Circular Connectors (5,740,196)
- Connector Support (3,067,418)
- Fiber Optic Connectors (278,911)
- RF Connectors (222,324)
- Rectangluar Connectors (906,125)
- Sockets and Chip Carriers (913,905)
- Other Interconnects (2,247,370)
- Telecom and Datacom Connectors (1,081,489)
- Terminals and Terminal Blocks (1,011,431)

Electromechanicals

- Relays (427,098)
- Switches (6,313,009)

Fasteners/Hardware

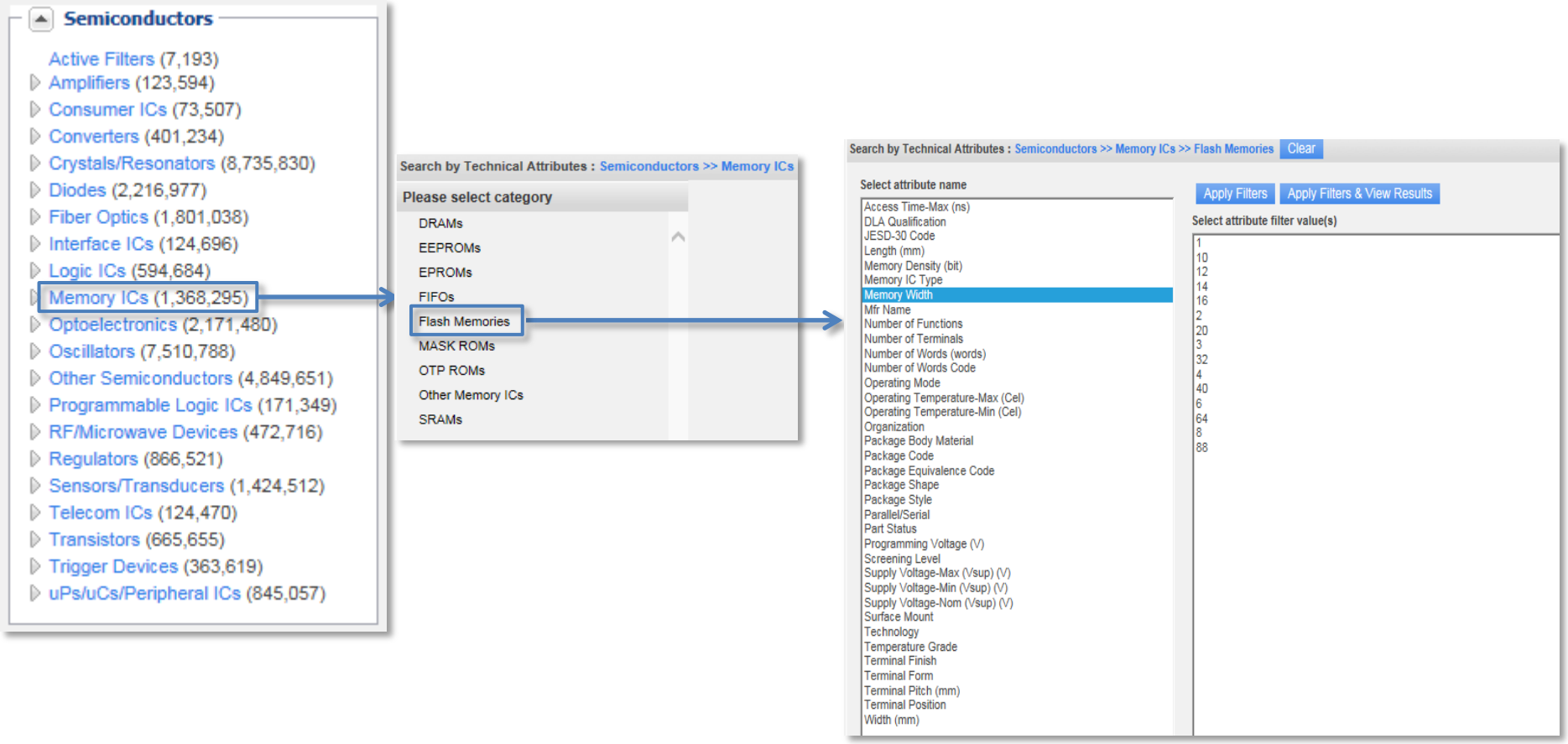
- Metric Devices (2,144,102)
- Non-Metric Devices (27,393,208)

Miscellaneous

- Limited Part Number Data (709,290)
- Thermal Support Devices (97,040)

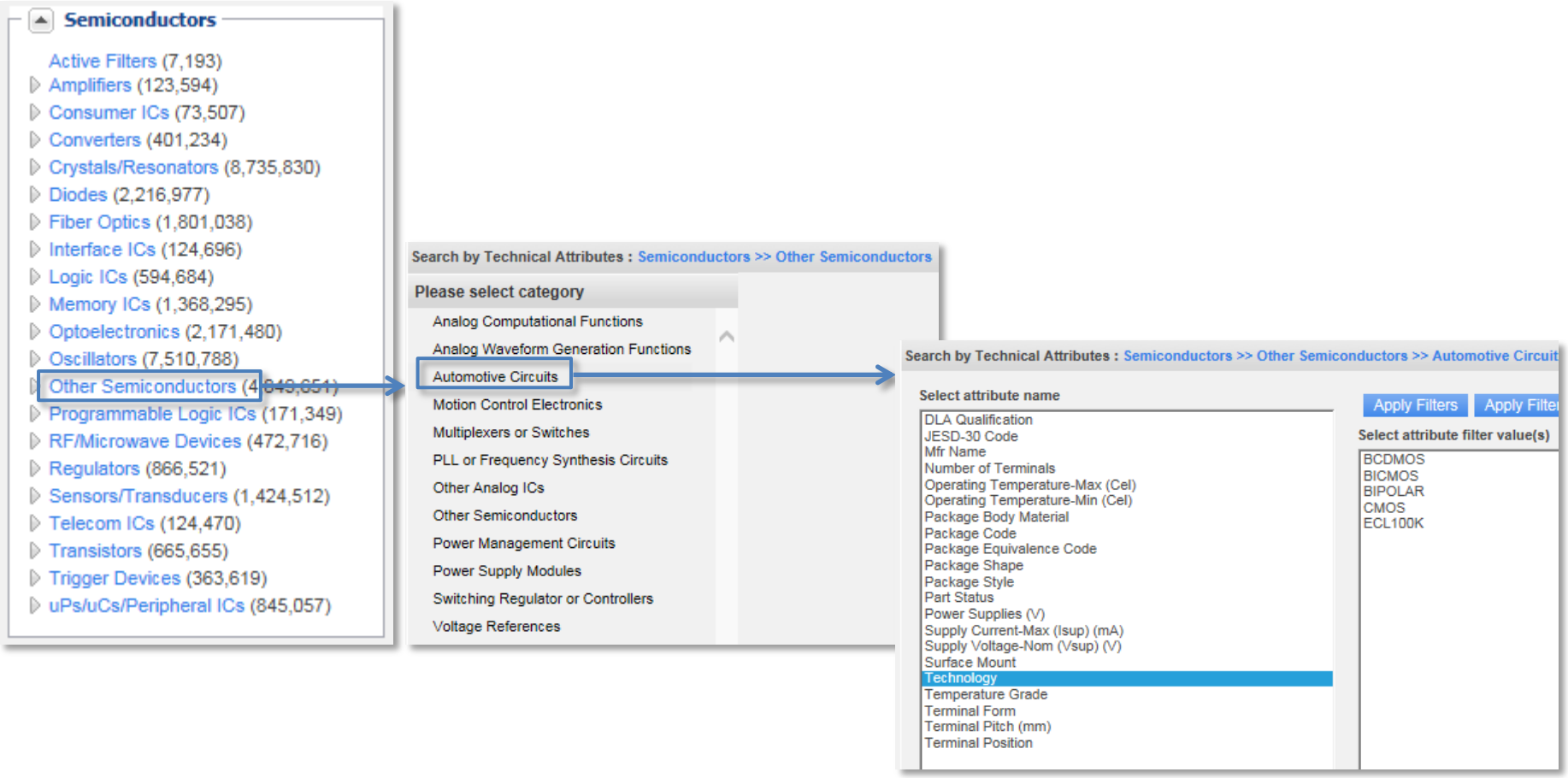
Parts sub category

400여 개 서브 카테고리 Browsing



Parts sub category

400여 개 서브 카테고리 Browsing



Parts searching

LM339N ▶ TI 사

Category: All Parts

Rel Info	LC Risk	ENV Risk	SC Risk	Part Number (LM339N*)	Mfr Name	CAGE Code	Part Status
NSN	High	High	High	LM339N	Motorola Semi	04713	Discontinued
NSN	Med	N/A	High	LM339N	Motorola	04713	Transferred
NSN	High	High	Med	LM339N	AMD	34335	Discontinued
	High	High	Med	LM339N	Raytheon	49956	Discontinued
	High	Low	Med	LM339N	ST Micro	F8859, 50088	Discontinued
NSN	Low	Low	Low	LM339N	TI	01295, 33809	Active
	High	High	Med	LM339N	Samsung	0DUN9	Discontinued
NSN	High	High	Med	LM339N	Intersil	34371, 1MY79	Discontinued
NSN	Med	High	High	LM339N	Harris	27410	Transferred
	High	High	Med	LM339N	On Semi	1MQ07	Discontinued
	High	High	High	LM339N	SGS-Ates		Discontinued
	Med	High	High	LM339N	Philips Semi	SJ552	Transferred

Parts Attributes

Attributes	Value
Part Status	Active
Description	QUAD COMPARATOR, 9000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDIP14
Manufacturer Part Description	QUAD DIFFERENTIAL COMPARATOR
Manufacturer Package Description	ROHS COMPLIANT, PLASTIC, DIP-14
CAGE Code	01295, 33809
Generic	LM339
EU RoHS Compliant	Yes
China RoHS Compliant	Yes
REACH Compliant	Yes
Life Cycle Stage	Mature
Life Cycle Code	3.5
Availability(YTEOL)	> 8
Estimated YTEOL	8.5
Alert/Prediction Date	02-Mar-2015
HTS Code	8542.39.00.00
ECCN	EAR99
ECCN Governance	EAR
DLA Qualification	Not Qualified
Amplifier Type	COMPARATOR
Temperature Grade	COMMERCIAL
Moisture Sensitivity Level	NOT APPLICABLE
Power Supplies (V)	5
Surface Mount	NO
Operating Temperature-Min (Cel)	0
Peak Reflow Temperature (Cel)	NOT SPECIFIED
Time@Peak Reflow Temperature-Max (s)	NOT SPECIFIED
Supply Voltage-Nom (Vsup) (V)	5
Sub Category	Comparator
Technology	BIPOLAR
Number of Functions	4
Package Code	DIP
JESD-30 Code	R-PDIP-T14
Package Shape	RECTANGULAR
Package Body Material	PLASTIC/EPOXY
Terminal Position	DUAL
Package Style	IN-LINE

View Alternates | Search By Example

▶ 부품의 요약 정보
SPEC.정보

Parts Alternates

Home: Part Search ▸ Part Number Search : All Parts ▸ Alternates [LM339N , TI]

Category: Amplifiers | Include Discontinued Parts | Find Alternates

	Rel Info	FFF	F=	DIR	SIM	Part Number
☐						LM339N
☐		✓	✓			LM339N
☐		✓	✓			LM339NG
☐		✓	✓			LM339NE4
☐		✓	✓			LM339NE3
☐		✓	✓			LM339N/NOPB

▶ 대체 가능 부품, 단종 대비

Side by side comparision ◀
대체가능 부품의 차이를
한눈에 쉽게 비교

earch : All Parts ▸ Alternates [LM339N , TI] ▸ Compare : Amplifiers

	9NG : On Semi	LM339N : TI	LM339N : Fairchild Semi
		X	X
		X	X
		X	X
	9NG	LM339N	LM339N
		Low	Low
		Low	Low
SC Risk	Low	Low	Low
Mfr Name	On Semi	TI	Fairchild Semi
Part Status	Active	Active	Active
Description	QUAD COMPARATOR, 9000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDIP14	QUAD COMPARATOR, 9000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDIP14	QUAD COMPARATOR, 9000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDIP14
Manufacturer Part Description	SINGLE SUPPLY QUAD COMPARATOR	QUAD DIFFERENTIAL COMPARATOR	QUAD COMPARATOR
Manufacturer Package Description	HALOGEN FREE AND ROHS COMPLIANT PLASTIC DIP-14	ROHS COMPLIANT, PLASTIC, DIP-14	DIP-14
CAGE Code	1MQ07	01295, 33809	1HBD3, 07933, 59621, 7D893, 07263
Generic	LM339	LM339	LM339
EU RoHS Compliant	Yes	Yes	Yes
China RoHS Compliant	Yes	Yes	
REACH Compliant	Yes	Yes	Yes
Life Cycle Stage	Mature	Mature	Mature
Life Cycle Code	3.92	3.5	3.92
Availability(YTEOL)	4 - 8	> 8	4 - 8
Estimated YTEOL	6.6	8.5	6.6
Alert/Prediction Date	05-Jan-2015	02-Mar-2015	05-Jan-2015
HTS Code	8542.39.00.00	8542.39.00.00	8542.39.00.00
SB Code	8542.39.00.00		8542.39.00.00

Parts Datasheet

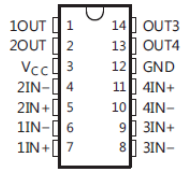
Revision시 새로운 datasheet update
부품의 형상, spec, recommendation 정보 제공

책갈피

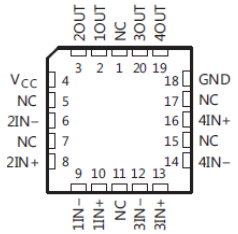
1 Features
2 Applications
3 Description
Table of Contents
4 Revision History
5 Device Comparison Table
6 Pin Configuration and Functions
7 Specifications
8 Detailed Description
9 Application and Implementation
10 Power Supply Recommendations
11 Layout
12 Device and Documentation Support
13 Mechanical, Packaging, and Orderable Information

6 Pin Configuration and Functions

D, DB, N, NS, PW, J, or W Package
SOIC, SSOP, PDIP, SO, TSSOP, CDIP, or CFP
Top View



FK Package
20-Pin LCCC(1)
Top View



(1) NC = no internal connection.

Pin Functions

PIN			I/O(1)	DESCRIPTION
NAME	D, J, W, B, PW, DB, N, NS	FK		
1IN+	7	10	I	Positive input pin of the comparator 1
1IN–	6	9	I	Negative input pin of the comparator 1
1OUT	1	2	O	Output pin of the comparator 1
2IN+	5	8	I	Positive input pin of the comparator 2
2IN–	4	6	I	Negative input pin of the comparator 2
2OUT	2	3	O	Output pin of the comparator 2
3IN+	9	13	I	Positive input pin of the comparator 3
3IN–	8	12	I	Negative input pin of the comparator 3
3OUT	14	20	O	Output pin of the comparator 3
4IN+	11	16	I	Positive input pin of the comparator 4
4IN–	10	14	I	Negative input pin of the comparator 4

Parts PCN Alert

IHS 4DOnline
BOM Manager

1420052845 - V) TEXAS INSTRUMENTS INC: PRODUCT CHANGE NOTIFICATION - A0000181633

TEXAS INSTRUMENTS 12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20140304002C
Qualification of HNT and JCET Chuzhou as Additional Assembly/Test Site for Select Devices
Change Notification / Sample Request

Date: 12/23/2014
To: AVNET PCN

Dear Customer:

The purpose of this version C is to retract devices from this change notification. The retraction is for select devices that were inadvertently included and are not affected by this change. We apologize for any inconvenience this may have caused.

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services
Phone: +1(214) 480-6037
Fax: +1(214) 480-6659

Texas Instruments, Inc. PCN# 20140304002C

Product/Device/shipping change notice alert

Parts Environmental/Material

EU RoHS/ China RoHS/REACH/분쟁광물/FMD/DRC 정보 제공

Environmental / Material

Docs | EU RoHS | Cn RoHS | REACH | DRC | Mfg | FMD

IPC 1752A XML

Document Type	Document Title	Publication Date
CoC-SVHC	E5) COC-SVHC (2015/06/15)	15-Jun-2015
CoC-RoHS	E1) COC-ROHS (2015/05/29)	29-May-2015
CoC-SVHC	E5) COC-SVHC (2015/05/29)	29-May-2015
Mfr EICC-GeSI Template	E9) GESI CONFLICT MINERALS REPORTING TEMPLATE(2015/02/24)	24-Feb-2015
CoC-RoHS	E1) COC-ROHS (2015/01/15)	15-Jan-2015
CoC-SVHC	E5) STATEMENT OF REACH(2015/01/14)	14-Jan-2015
CoC-SVHC	E5) COC-SVHC (2015/01/08)	08-Jan-2015
CoC-REACH	E6) REACH Compliance Disclosure, Certificate of REACH Compliance (2014/07/16)	16-Jul-2014
Mfr EICC-GeSI Template	E9) GESI CONFLICT MINERALS REPORTING TEMPLATE(2014/06/17)	17-Jun-2014
CoC-RoHS	E1) CERTIFICATE OF COMPLIANCE (2014/02/14)	14-Feb-2014
CoC-SVHC	E5) STATEMENT ON REACH ARTICLES(2014/01/06)	06-Jan-2014
Mfr EICC-GeSI Template	E9) GESI CONFLICT MINERALS REPORTING TEMPLATE(2013/09/11)	11-Sep-2013
CoC-SVHC	E5) 7646-79-9 STATEMENT OF REACH ARTICLES(2013/07/12)	12-Jul-2013
CoC-REACH	E6) REACH Compliance Disclosure, Certificate of REACH Compliance (2013/07/12)	12-Jul-2013
CoC-SVHC	E5) STATEMENT OF REACH ARTICLES(2013/01/24)	24-Jan-2013
CoC-RoHS2	E12) COC-ROHS2 (2013/01/24)	24-Jan-2013
CoC-SVHC	E5) STATEMENT ON REACH ARTICLES(2012/07/10)	10-Jul-2012
Mfr CM Statement	E10) CONFLICT MINERALS UPDATE(2012/02/20)	20-Feb-2012
CoC-SVHC	E5) STATEMENT ON REACH ARTICLES PROVISIONS(2012/01/05)	05-Jan-2012
Mfr CM Statement	E10) PRODUCTS CONFLICT MINERALS STATEMENT(2011/02/10)	10-Feb-2011
CoC-SVHC	E5) STATEMENT ON REACH ARTICLES PROVISIONS(2010/12/10)	10-Dec-2010
CoC-SVHC	E5) STATEMENT ON REACH PROVISIONS(2010/07/19)	19-Jul-2010
CoC-SVHC	E5) 427-700-2 STATEMENT ON REACH ARTICLES PROVISIONS(2010/07/01)	01-Jul-2010
CoC-SVHC	E5) 204-371-1 INTEGRATED CIRCUIT PRODUCTS(2009/03/12)	12-Mar-2009
Mfr Full Material Declaration	E7) LM339N JIG MATERIAL CONTENT COMPLIANCE (2006/09/27)	27-Sep-2006
CoC-RoHS	E1) MATERIAL DECLARATION CERTIFICATE FOR SEMICONDUCTOR PRODUCTS (2005/07/27)	27-Jul-2005

Parts Environmental/Material

REACH COC-SVHC

신화학물질관리제도(REACH)의 친환경 인증 및 위험요소가 매우 높은 물질 규정

TEXAS INSTRUMENTS

Statement on REACH Articles Provisions from Texas Instruments, Integrated Circuit Products

This document outlines Texas Instruments (TI)'s current understanding of obligations for communication of substances of very high concern in articles and disclosure of TI's actions to appropriately address such requirements.

With regard to the Substances of Very High Concern (SVHC) candidate list published on the European Chemicals Agency (ECHA) website, based on information from our suppliers and internal chemical screening processes *TI products do not contain any of the SVHC candidates listed herein above the regulatory threshold of 0.1% in TI Integrated Circuit (IC) devices or development vehicles such as evaluation modules or shipping materials of these TI products*. TI is currently engaging with its suppliers to obtain additional information and assurances. As the ECHA SVHC list is updated, TI will provide information to its customers in a timely manner concerning their use or non-use within finished IC products through TI's product content data base (www.ti.com/eco-info).
In the past, TI used Cobalt Dichloride ($CoCl_2$) (CAS #7646-79-9) at a concentration of approximately 0.15% to detect humidity in our product packaging. TI no longer uses $CoCl_2$ but some of the product we have in our distribution centers may still contain this chemical. The boxes of TI product that contain a $CoCl_2$ HIC card are marked to identify this substance. In some of TI's Bill of Materials descriptions Boron trioxide (B_2O_3) (CAS #1303-86-2) will be used as a component of glass. The use of B_2O_3 is as a chemical intermediate to make glass and is therefore not an SVHC.

The following list of SVHC candidates was last updated by ECHA on June 15, 2015.

Initial: REACH Candidate List on 28 October 2008			
Substance Category Name	**CAS number(s) published by ECHA**	**EC number**	**Identification as a Basic SVHC**
Triethyl arsenate	15606-95-8	427-700-2	Carcinogenic, article 57a
Sodium dichromate, dihydrate	7789-12-0, 10588-01-9	234-190-3	Carcinogenic, mutagenic and toxic for reproduction, article 57a, 57b & 57c
Lead hydrogen arsenate	7784-40-9	232-064-2	Carcinogenic and toxic for reproduction, article 57a & 57c
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	247-148-4 221-695-9	PBT, article 57d
Dibutyl phthalate (DBP)	84-74-2	201-557-4	Toxic for reproduction, article 57c
Diarsenic trioxide	1327-53-3	215-481-4	Carcinogenic, article 57a
Diarsenic pentoxide	1303-28-2	215-116-9	Carcinogenic, article 57a
Tributyl tin oxide (TBTO)	56-35-9	200-268-0	PBT, article 57d
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	Toxic for reproduction, article 57c *Also Included on REACH SVHC List 2014/12/17*
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	Toxic for reproduction, article 57c
Anthracene	120-12-7	204-371-1	PBT, article 57d
Alkanes, Shortchain Chlorinated Paraffins (C10 - C13)	85535-84-8	287-476-5	PBT and vPvB, article 57d & e
5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	201-329-4	vPvB, article 57e
4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	Carcinogenic, article 57a
Cobalt dichloride (CoCl2)	7646-79-9	231-589-4	Carcinogenic and toxic for reproduction, article 57a & 57c *Also Included on REACH SVHC List 2011/06/20*

1 Revised June 2015

IHS IEEE SAE INTERNATIONAL Authorized Dealer in Korea KITIS 키티스産學硏情報(株) KITIS Info. & Co., Ltd

Parts Environmental/Material

COC-ROHS

위험물질제한지침(ROHS)의 TI반도체 제품의 원자재에 대한 Pb free, Green 인증친환경 인증서

Docs | EU RoHS | Cn RoHS | REACH | DRC | Mfg | FMD

IPC 1752A XML

Attributes	Value
Compliant	Yes
EFUP	e
Pb	0
Cd	0
Cr VI	0
Hg	0
PBB	0
PBDE	0

TEXAS INSTRUMENTS

RoHS & Material Declaration Certificate for Semiconductor Products

TI certifies to the best of its knowledge that TI's semiconductor products designated as "Pb-Free", "RoHS Exempt" or "Green" (defined below):

- Are compliant with the threshold requirements of the European Union's Restriction on Use of Hazardous Substances Directive, 2002/95/EC ("RoHS1"), as well as the recast Directive 2011/65/EU ("RoHS 2")
- Do not exceed IEC 62474 dB (formerly the Joint Industry Guide ("JIG-101")) and the Global Automotive Declarable Substance List (GADSL) for regulated substance thresholds
- Meet the China Management Methods for controlling Pollution by Electronic Information Products ("China RoHS").
- Do not contain any of the Registration, Evaluation, Authorization and Restriction of Chemicals ("REACH") substances of very high concern (SVHC) above the regulatory threshold of 0.1% at the Article 33 level. (See TI_REACH_Statement.pdf for the latest TI REACH document)

TI defines "Pb-free", "RoHS Exempt" and "Green" products as follows:

- **Pb-Free:** TI defines "Pb-Free" or "RoHS Compliant" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 6 RoHS substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI "Pb-Free" and "RoHS Compliant" products are suitable for use in specified lead-free processes. Product is also fully compliant to GADSL and IEC 62474 database electronics requirements
- **RoHS Exempt:** TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.
- **Green:** TI defines "Green" to mean Pb-Free/RoHS Compliant and content of Chlorine (Cl), Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must meet the 1000ppm threshold requirement

Note: *Proprietary materials must be in full compliance to known regulatory requirements as well*

TI semiconductor products *not* designated as "Pb-Free" or "Green" complies with EU RoHS and China RoHS for all substances except Lead (Pb), which may be found in the leadframe plating or solder balls, or in one of the RoHS exempt applications, 7(a), 7(c)-I, 7(c)-IV or 15. For semiconductor products containing lead, the China RoHS EFUP is 50 years (www.ti.com/leadfree).

Parts Environmental/Material

FMD: Full Material Disclousure : 부품내에 존재하는 모든 원자재 spec.

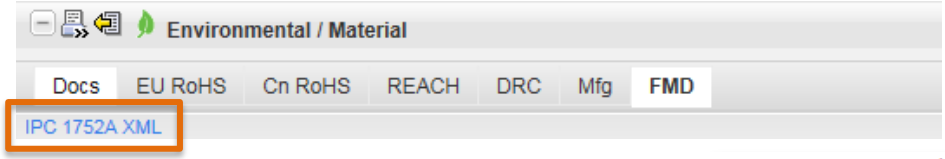
Docs | EU RoHS | Cn RoHS | REACH | DRC | Mfg | FMD

IPC 1752A XML

Attributes	Value
Item Number/Name	N | 14
Item Weight (mg)	1214.000000

Homogenous Material	H Mat Weight (mg)	Substance	Symbol	CAS	Weight (mg)	Concentration (PF
FMD Homogenous Data						
Bond Wire	0.141289	Gold	Au	7440-57-5	0.141275	999901
Bond Wire	0.141289	Proprietary Materials			0.000014	99
Die Attach Adhesive	0.160164	Oxirane, 2,2'-[(3,3',5,5'-tetramethyl[1,1'-biphenyl]-4,4'-diyl)bis(oxymethylene)]bis-		85954-11-6	0.032033	200001
Die Attach Adhesive	0.160164	Silver	Ag	7440-22-4	0.128131	799999
Lead Frame	351.000000	Copper	Cu	7440-50-8	341.828370	973870
Lead Frame	351.000000	Iron	Fe	7439-89-6	8.425755	24005
Lead Frame	351.000000	Lead	Pb	7439-92-1	0.017550	50
Lead Frame	351.000000	Phosphorus	P	7723-14-0	0.289575	825
Lead Frame	351.000000	Zinc	Zn	7440-66-6	0.438750	1250
Lead Frame Plating	52.030000	Tin	Sn	7440-31-5	52.030000	1000000
Mold Compound	810.115323	Antimony	Sb	7440-36-0	4.455634	5500
Mold Compound	810.115323	Carbon Black		1333-86-4	4.455634	5500
Mold Compound	810.115323	Fused Silica			716.141946	884000
Mold Compound	810.115323	Oxirane, 2,2'-[(3,3',5,5'-tetramethyl[1,1'-biphenyl]-4,4'-diyl)bis(oxymethylene)]bis-		85954-11-6	85.062109	105000
Semiconductor Device	0.568486	Silicon	Si	7440-21-3	0.568486	1000000

Parts Environmental/Material



IPC 1752A XML

: 제품 내 원자재 정보 공유를 목적으로 정보 제공 기관. 기업의 supply chain 향상에 기여

xml 형태의 원자재 정보를 다운로드 받아서 내부 시스템에 반입시켜 전사적 공유 사용 가능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Parts Environmental/Material

Conflict Minerals

*** Sn(주석), Ta(탄탈), W(텅스텐), Au(금)**

분쟁지역에서 생산 또는 인증되지 않은 용광로를 사용하여 취득한 원자재 미사용 지침

TI사는 Conflict Free Smelter program 지원

TEXAS INSTRUMENTS

Texas Instruments Incorporated

Texas Instruments Incorporated
Conflict Minerals Update

February 20, 2012

Dear TI Customer,

We have received several inquiries from our customers in response to the Conflict Minerals issue addressed in Section 1502 of the **Dodd-Frank Wall Street Reform and Consumer Protection Act** that was passed by the US Congress in July 2010. Although the final regulations have still not been issued by the SEC, TI has been working with the EICC/GeSI Extractives work group and our direct suppliers to begin tracing minerals back to their origin in order to ensure responsible sourcing.

TI uses Tantalum, Tin, Tungsten, and Gold to manufacture semiconductor devices. Each of these metals has specific electrical properties which are necessary for the function of our products.

TI does not purchase these metals directly from smelters or mines, so we must rely on the source information provided by our suppliers. TI is requesting this information using the standardized **EICC/GeSI Conflict Minerals Reporting Template** that traces the metals back through the supply chain. The information provided thus far is incomplete, as the supply chain is still working through the process with their suppliers and sub-suppliers. We have a preliminary report of the smelters and mines in TI's supply chain based on the information provided thus far. We will continue to improve this information and provide periodic updates as more data becomes available.

TI supports industry initiatives such as the Conflict Free Smelter (CFS) program to validate responsible and sustainable sources. As the validated smelter lists become available, TI will request suppliers to source metals from the listed smelters.

Parts Lifecycle

부품의 LCS 측정 ▶ 부품 EOL 예측 ▶ 대체품 선제 대응

Attributes	Value
Life Cycle Stage	Mature
Availability(YTEOL)	> 8
Alert/Prediction Date	02-Mar-2015
Life Cycle Information Source	IHS/Manufacturer
Life Cycle Code	3.5
Estimated YTEOL	8.5

Parts Manufacturer/Distributors

Manufacturer ▶ Distributors ▶ Suppliers

Manufacturer

Info | Categories | Authorized Distributors

Attributes	Value
Manufacturer Name	TEXAS INSTRUMENTS INC
Mfr Name	TI
CAGE Code	01295, 33809
Manufacturer Web Site	http://www.ti.com
Manufacturer Support	SUPPORTED
Business Status	Manufacturer
Address-1	12500 TI BOULEVARD
Address-2	PO BOX 660199
City	DALLAS
State	TX
Zip	75266-0199
Region	USA
Phone Number	+1-972-995 2011

Parts Manufacturer/Distributors

Manufacturer ▶ Distributors ▶ Suppliers

Info | Categories | **Authorized Distributors**

Manufacturer Name	Business Name	Location Count
TEXAS INSTRUMENTS INC	AKERMANN ELECTRONIC BG LTD	1
TEXAS INSTRUMENTS INC	ARROW ELECTRONICS INC	228
TEXAS INSTRUMENTS INC	AVNET INC	148
TEXAS INSTRUMENTS INC	CHIP ONE STOP INC	1
TEXAS INSTRUMENTS INC	COMPEL	5
TEXAS INSTRUMENTS INC	DIGI-KEY CORP	103
TEXAS INSTRUMENTS INC	EASTRONICS	1
TEXAS INSTRUMENTS INC	EBV ELEKTRONIK	36
TEXAS INSTRUMENTS INC	ELEMENT14	7
TEXAS INSTRUMENTS INC	EMPA ELEKTRONIK A.S	3
TEXAS INSTRUMENTS INC	FARNELL ELEMENT14	37
TEXAS INSTRUMENTS INC	MACNICA INC	1
TEXAS INSTRUMENTS INC	MOUSER ELECTRONICS INC	109
TEXAS INSTRUMENTS INC	MT SYSTEM	2
TEXAS INSTRUMENTS INC	NEWARK/ELEMENT14	46
TEXAS INSTRUMENTS INC	NSU CORP	1
TEXAS INSTRUMENTS INC	PAN ELECTRON LTD	1

Parts Manufacturer/Distributors

Manufacturer ▶ Distributors ▶ Suppliers

Suppliers

Address1	Business Type	Business Name	Cage	City	Country
9601 Amberglen Blvd., Ste 250		AVNET INC		Austin	United States Of America
Rm 2133, Dolton Grand Source Bldg, No.517, Xiangfu Rd		AVNET INC		Changsha	China
15231 Ave of Science, Ste. 150		AVNET INC		San Diego	United States Of America
Via Scaglia Est, 144		AVNET INC		Modena	Italy
Rudower Chaussee 12 d		AVNET INC		Berlin	Germany
9200 Indian Creek Prkwy, Ste 600		AVNET INC		Overland Park	United States Of America
Plaza Zabalgane 12, Bajo Izqda		AVNET INC		Galdacano	Spain
Eagle BldgKouterveldstraat 20B		AVNET INC		Diegem	Belgium
Schonbrunner Strasse 297-307		AVNET INC		Vienna	Austria
5400 Prairie Stone Pkwy		AVNET INC	60EG2	Hoffman Estates	United States Of America
2501 Discovery Dr., Ste 150		AVNET INC	4SFD1	Orlando	United States Of America
630 W Carmel Dr Ste 100		AVNET INC	4U560	Carmel	United States Of America
10260 SW Greenburg Rd., 4th Floor, Ste 400		AVNET INC		Portland	United States Of America
10545 Willows Rd NE, Ste 150		AVNET INC		Redmond	United States Of America
8 Floor, Blk 2, Financial Base, 8 Kefa Raod, Hi-Tech Industrial Park, Nanshan Dt		AVNET INC		Shenzhen	China
Block G, H, A1, 23F., First City Plaza, No.308, Shun Cheng Ave		AVNET INC		Chengdu	China
245 Kenneth Dr Town Of Henrietta		AVNET INC	4WWY9	Rochester	United States Of America
8601 Six Forks Rd., Ste 400		AVNET INC		Raleigh	United States Of America
12&15 Floor, Innov Tower, No. 1801, Hongmei Rd		AVNET INC		Shanghai	China
86, Second Floor, Okhla Indl Area Phase-III,		AVNET INC		New Delhi	India
12808 W. Airport Blvd, Ste 350		AVNET INC		Sugarland	United States Of America
16/F, Spectrum Tower, 53 Hung To Rd, Kwun Tong		AVNET INC		Kowloon	China
No: 402, 4th floor, Tower 'B', RMZ - Infinity No. 3, Old Madras Rd		AVNET INC		Bangalore	India
		AVNET INC		Orange County	United States Of America
		AVNET INC		Montreal	Canada

Parts Manufacturers

Active Manufacturers

LM339N을 만드는 제조사

Active Mfrs: Part Number: LM339N

Mfr Name	CAGE	Part Status	Address	City	State
FAIRCHILD SEMICONDUCTOR CORP	1HBD3, 07933, 59621, 7D893, 07263	Active	82 RUNNING HILL ROAD	SOUTH PORTLAND	ME
TEXAS INSTRUMENTS INC	01295, 33809	Active	12500 TI BOULEVARD	DALLAS	TX

Generic Manufacturers

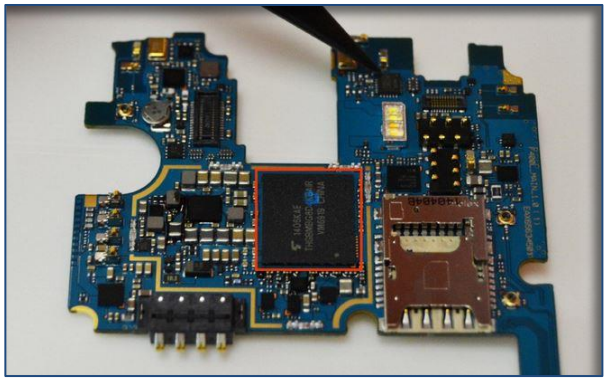
LM339N same function을 가진 부품 제조사 ▶ 대체제조사 예측

Generic Mfrs: Part Number: LM339N

Part Number	Description	Manufacturer Name	CAGE Code
LM339G-P14-T	COMPARATOR	UNISONIC TECHNOLOGIES CO LTD	
LM239ADE4	QUAD COMPARATOR, 4000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDSO14	TEXAS INSTRUMENTS INC	01295, 33809
LM239NE4	QUAD COMPARATOR, 9000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDIP14	TEXAS INSTRUMENTS INC	01295, 33809
LM339ADRE4	QUAD COMPARATOR, 4000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDSO14	TEXAS INSTRUMENTS INC	01295, 33809
LM339N	QUAD COMPARATOR, 9000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDIP14	TEXAS INSTRUMENTS INC	01295, 33809
LM339ADRG4	QUAD COMPARATOR, 4000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDSO14	TEXAS INSTRUMENTS INC	01295, 33809
LM339APWRE4	QUAD COMPARATOR, 4000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDSO14	TEXAS INSTRUMENTS INC	01295, 33809
LM339ADR	QUAD COMPARATOR, 4000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDSO14	TEXAS INSTRUMENTS INC	01295, 33809
LM239ADRE4	QUAD COMPARATOR, 4000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDSO14	TEXAS INSTRUMENTS INC	01295, 33809
LM339ADE4	QUAD COMPARATOR, 4000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDSO14	TEXAS INSTRUMENTS INC	01295, 33809
LM339AN	QUAD COMPARATOR, 4000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDIP14	FAIRCHILD SEMICONDUCTOR CORP	1HBD3, 07933, 59621, 7D893, 07263
LM339M	QUAD COMPARATOR, 9000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDSO14	FAIRCHILD SEMICONDUCTOR CORP	1HBD3, 07933, 59621, 7D893, 07263
LM239PWRE4	QUAD COMPARATOR, 9000uV OFFSET-MAX, 1300ns RESPONSE TIME, PDSO14	TEXAS INSTRUMENTS INC	01295, 33809

Parts supply chain example

LG G3 chipset



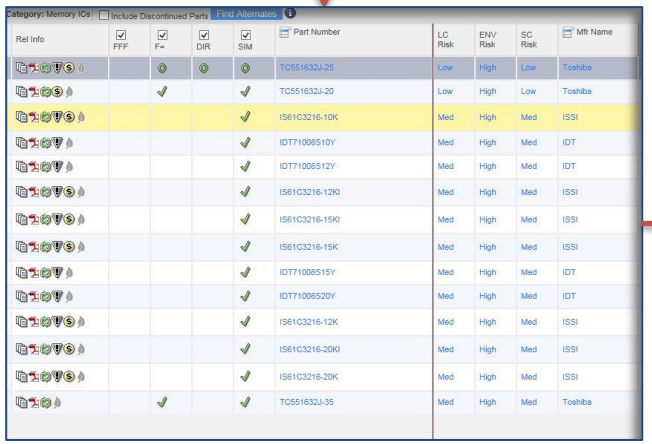
Parts Mfr

Toshiba

Manufacturer Name	Business Name	Location
TOSHIBA CORP	ALLPLUS COMPUTER SYSTEMS CORP	1
TOSHIBA CORP	ARROW ELECTRONICS INC	56
TOSHIBA CORP	AVNET INC	60
TOSHIBA CORP	D&H DISTRIBUTING CO	1
TOSHIBA CORP	DEXTER MAGNETICS	12
TOSHIBA CORP	DIGI-KEY CORP	1
TOSHIBA CORP	INGRAM MICRO	49
TOSHIBA CORP		
TOSHIBA CORP		
TOSHIBA CORP		
TOSHIBA CORP		
TOSHIBA CORP		
TOSHIBA CORP		

IHS와 제조사가 인증한 신뢰할 수 있는 부품 공급업체 리스트

Alternatives List



Rel Info	FFF	F=	DIR	SIM	Part Number	LC Risk	ENV Risk	SC Risk	Mfr Name
					TC551632J-25	Low	High	Low	Toshiba
					TC551632J-20	Low	High	Low	Toshiba
					IS61C3216-10K	Med	High	Med	ISSI
					IDT71008S10Y	Med	High	Med	IDT
					IDT71008S12Y	Med	High	Med	IDT
					IS61C3216-12KI	Med	High	Med	ISSI
					IS61C3216-15KI	Med	High	Med	ISSI
					IS61C3216-15K	Med	High	Med	ISSI
					IDT71008S15Y	Med	High	Med	IDT
					IDT71008S20Y	Med	High	Med	IDT
					IS61C3216-12K	Med	High	Med	ISSI
					IS61C3216-20KI	Med	High	Med	ISSI
					IS61C3216-20K	Med	High	Med	ISSI
					TC551632J-35	Med	High	Med	Toshiba

Suppliers List

Suppliers List

국가 별 공급업체 세부 정보: 주소, 담당 연락처 등

IHS IEEE SAE INTERNATIONAL Authorized Dealer in Korea KITIS 키티스産學硏情報(株) KITIS Info. & Co., Ltd

Parts Pricing

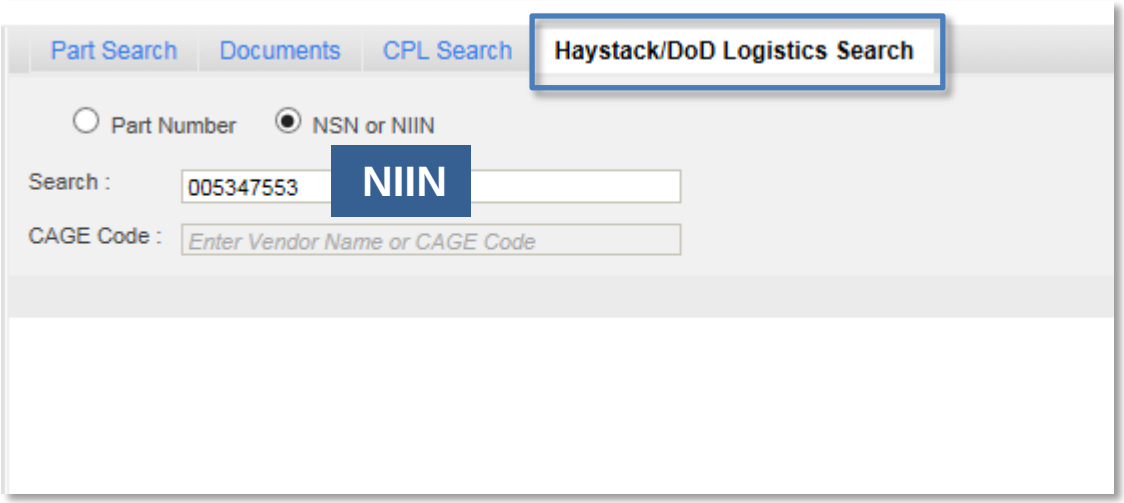
부품의 평균 단가, Distributors, 재고량, 납품소요 시간

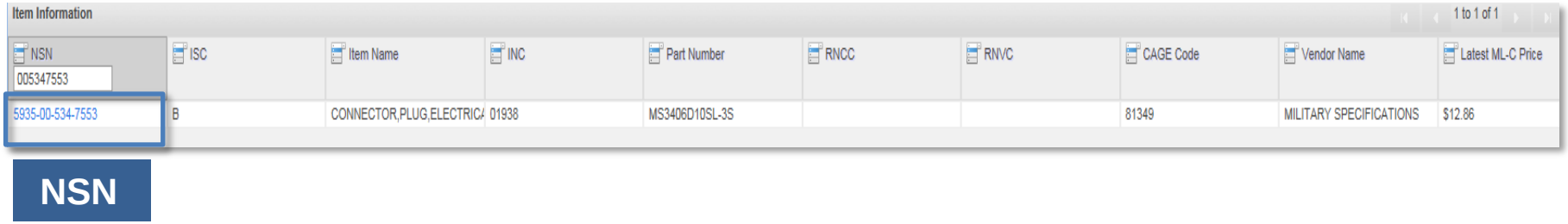
Average Price : 0.365 (Featured Distributors Highlighted)

Source	Quantity in Stock	Lead Time (Weeks)	Price	Currency	Quantity-Min	Quantity-Max	Quantity-Multiples	Packaging	Pac
MOUSER ELECTRONICS	5216		0.57	USD			1		
Rochester Electronics	187205	0	0.14	USD					
Digi-Key	0	1	0.57	USD				TUBE	
Newark	5457		0.527	USD				EA	1
VYRIAN	29514								
AMERICA II ELECTRONICS	16								
AREA51	25			USD					
North Shore Components	275								
4STAR ELECTRONICS	98								
RS	17625								
ASTUTE	19639								
KRUSE Kruse Electronic Component	27250			USD					
ComS.I.T.	80								

Haystack/ DoD Logistics search

Haystack db와 연동을 통한 방산 전자 부품 정보 제공 극대화
Part No./ NSN/ CAGE 정보를 이용한 부품 정보 검색 가능





NSN

Haystack/ DoD Logistics search

Segment A | MCRL (52) | ML-C (6) | Parametric (29) | Procurement (177) | Print | Export

FSC	NIIN	Item Name	INC	CRIT	ISC	Status	TIIC	RPDMRC	ADP	DEMIL	DEMIL Integrity Co	HMIC	ESDEMI	PMI	HCC	Schedule B	ENAC	Assign Date
5935	005347553	CONNECTOR,PLU	01938	X	B	0	1		0	A	1	P	A	A		8536.69.5050		13-Sep-1974

FLIS Header

Segment A | MCRL (52) | ML-C (6) | Parametric (29) | Procurement (177)

Part Number	RNCC	RNVC	RNFC	RNJC	RNSC	RNAAC	SADC	DAC	HCC	MSDSID	CAGE Code	Vendor Name
0779	C	1				TX	AF	5			07790	M S AND M MFG CO
1251-0038	C	1				ZZ	AC	6			28480	HEWLETT-PACKARD COMPANY
208-3106F10SL3S100	C	1				TX	AF	6			02660	AMPHENOL CORP
208-3106R10SL3S100	C	1				TX	AF	6			02660	AMPHENOL CORP
357-4234-000	C	1				ZZ	AC	6			13499	ROCKWELL COLLINS, INC.
357-4579-080	C	1				TX	AF	5			95105	ROCKWELL COLLINS, INC.
414-0537-001	C	1				TX	AF	5			94756	BOEING COMPANY, THE
602-12504	C	1				TX	AF	5			52515	ALTURDYNE
810VI0869	5	2	4		A	ZR		1			A0199	OTO MELARA SPA
887303	C	1				ZZ	AC	6			07342	NAI TECHNOLOGIES INC
9446A10SL-3S	C	1				ZZ	AC	6			14283	AMPHENOL OPTIMIZE MANUFACTURING CO.
9446A10SL-3SN	C	1				ZZ	AC	6			14283	AMPHENOL OPTIMIZE MANUFACTURING CO.
97-3106A-10SL-3S	C	1				ZZ	AC	5			22375	FISCHER AND PORTER CO
97-3	E	8				TX		5			77820	AMPHENOL CORPORATION
97-3	E	8				ZZ		5			77820	AMPHENOL CORPORATION
AN3	5	9			B	9Z		4			88044	AERONAUTICAL STANDARDS GROUP
AN3106A10SL3S	5	9			B	9Z		4			88044	AERONAUTICAL STANDARDS GROUP

MCRL

Segment A | MCRL (52) | ML-C (6) | Parametric (29) | Procurement (177)

SA	SOS	MCD	COG	UI	UI Conversion	QUP	AAC	SLC	RC	CIIC	Effective Date	USC	Price
DA	SMS	Q2200X		EA		1	D	0	Z	U	30-Sep-2015	A	$12.86
DF	SMS	SF9EH N		EA		1	D	0	N	U	30-Sep-2015	F	$12.86
DM	SMS	15B2		EA		1	D	0	Z	U	30-Sep-2015	M	$12.86
DN		9B 9	9B	EA		1	D	0		U	30-Sep-2015	N	$12.86
DS				EA		1	D	0	N	U	30-Sep-2015	D	$12.86
GP				EA		1	D	0		U	30-Sep-2015	C	$12.86

ML-C

Haystack/ DoD Logistics search

Segment A | MCRL (52) | ML-C (6) | **Parametric (29)** | Procurement (177)

MRC	Requirement	Reply
AAJD	THREAD CLASS	2A AND 2B
AAJF	THREAD DIRECTION	RIGHT-HAND AND RIGHT-HAND
AAQL	III BODY STYLE	STRAIGHT SHAPE, INTERNAL COUPLING
ABHP	OVERALL LENGTH	2.031 INCHES MAXIMUM
ADAV	OVERALL DIAMETER	0.969 INCHES MAXIMUM
ADZC	ENVIRONMENTAL PROTECTION	MOISTURE RESISTANT AND VIBRATION RESISTANT AND SALT WATER RESISTANT
AFQR	THREADED DEVICE TYPE	BACK SHELL AND COUPLING FACILITY
AFQW	MATING END QUANTITY	1
AFQX	CONTACT POSITION ARRANGEMENT STYLE	10SL-3 SINGLE MATING END
AFQZ	CONTACT REMOVABILITY	REMOVABLE SINGLE MATING END SINGLE CONTACT GROUPING
AFRD	CONTACT MAXIMUM AC VOLTAGE RATING IN VOLTS	500.0 SINGLE MATING END SINGLE CONTACT GROUPING
AFRE	CONTACT MAXIMUM DC VOLTAGE RATING IN VOLTS	700.0 SINGLE MATING END SINGLE CONTACT GROUPING
AFRN	POLARIZATION METHOD	KEY, MULTIPLE KEY GROOVE
AFRP	INSERT POSITION IN DEG	0.0
AFRT	SHELL TYPE	SOLID
AFRV	CONNECTOR LOCKING METHOD	INTERNALLY THREADED COUPLING RING
AKMG	INAL THREAD LENGTH	0.290 INCHES AND 0.375 INCHES
CQJX	INAL THREAD SIZE	0.625 INCHES AND 0.625 INCHES
CQTM	MINAL LOCATION	BACK SINGLE MATING END SINGLE CONTACT GROUPING
CQZG	INSERT MATERIAL	PLASTIC SILICONE MINERAL FILLED SINGLE MATING END

Tech. Charateristics

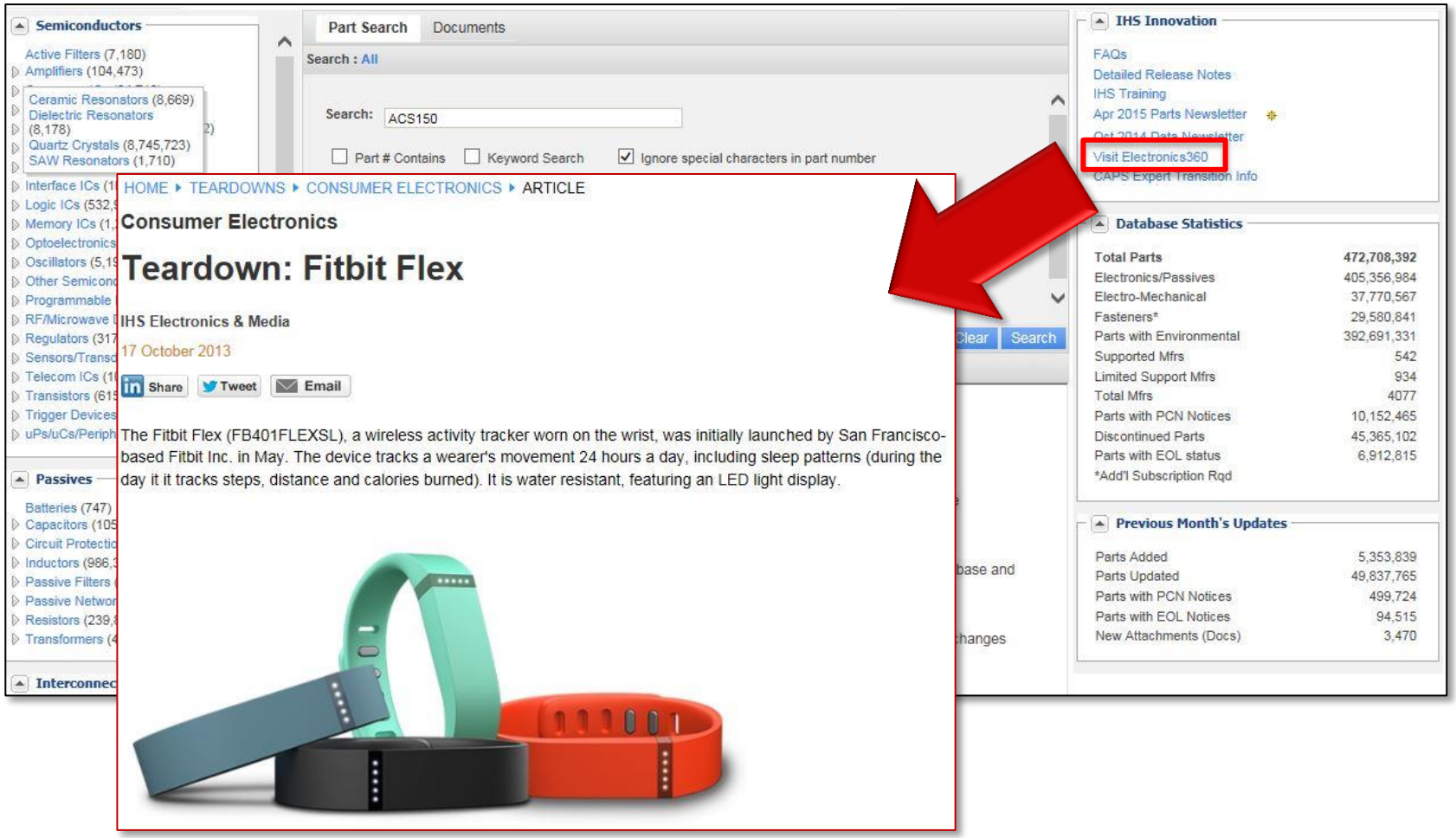
Segment A | MCRL (52) | ML-C (6) | Parametric (29) | **Procurement (177)**

Date	Contract Number	X1	X2	X3	SOS	Quantity	Price	Total	UI	CAGE Code	Vendor Name
15-Jul-2013	SPM7M213M4016	0001			DLA	4000	$9	$36000	EA	1R6R9	CORSAIR ELECTRICAL CONNECTORS, INC.
02-Dec-2012	SPM7M213M0909	0001			DLA	4516	$8.75	$39515	EA	1R6R9	CORSAIR ELECTRICAL CONNECTORS, INC.
02-Dec-2012	SPM7M213M0909	0002			DLA	180	$8.75	$1575	EA	1R6R9	CORSAIR ELECTRICAL CONNECTORS, INC.
02-Dec-2012	SPM7M213M0909	0003			DLA	20	$8.75	$175	EA	1R6R9	CORSAIR ELECTRICAL CONNECTORS, INC.
02-Dec-2012	SPM7M213M0909	0004			DLA	350	$8.75	$3062.5	EA	1R6R9	CORSAIR ELECTRICAL CONNECTORS, INC.
08-Nov-2012	SPM7M213M0485	0001			DLA	3556	$10.17	$36164.52	EA	59976	AERO-ELECTRIC CONNECTOR, INC.
08-Nov-2012	SPM7M213M0485	0002			DLA	180	$10.17	$1830.6	EA	59976	AERO-ELECTRIC CONNECTOR, INC.
08-Nov-2012	SPM7M213M0485	0003			DLA	20	$10.17	$203.4	EA	59976	AERO-ELECTRIC CONNECTOR, INC.
08-Nov-2012	SPM7M213M0485	0004			DLA	960	$10.17	$9763.2	EA	59976	AERO-ELECTRIC CONNECTOR, INC.
08-Nov-2012	SPM7M213M0485	0005			DLA	350	$10.17	$3559.5	EA	59976	AERO-ELECTRIC CONNECTOR, INC.
22-Sep-2011	SPM7M111MVO53	0001			DLA	587	$10.66	$6257.42	EA	1R6R9	CORSAIR ELECTRICAL CONNECTORS, INC.
29-Aug-2011	[illegible]	[illegible]			DLA	87	$10.73	$933.51	EA	1R6R9	CORSAIR ELECTRICAL CONNECTORS, INC.
29-Aug-2011	[illegible]	[illegible]			DLA	129	$10.73	$1384.17	EA	1R6R9	CORSAIR ELECTRICAL CONNECTORS, INC.
29-Aug-2011	SPM7M111MVP14	0003			DLA	431	$10.73	$4624.63	EA	1R6R9	CORSAIR ELECTRICAL CONNECTORS, INC.

Procurement history

IHS parts solution – IHS Electronics360 연계

Electronics360 싸이트를 활용한 부품 검색과 IHS part solution ED 상세 정보 획득
- Fitbit Flex 스마트 밴드 부품 정보



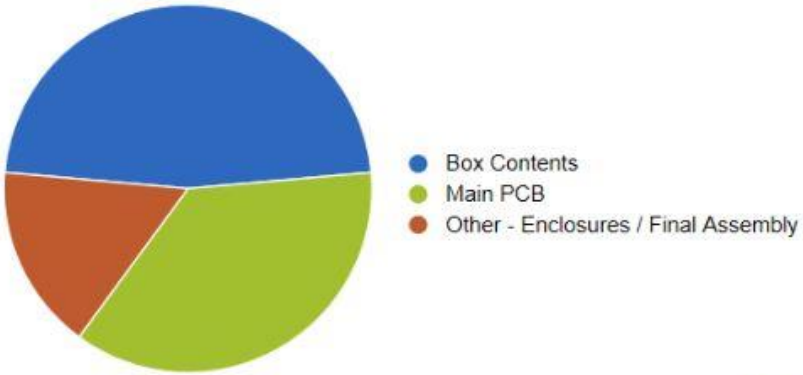
IHS parts solution – IHS Electronics360 연계

Teardown Analysis

Major components:

- Wristband A, 2-Shot Injection Molded Polycarbonate & Silicone Rubber - (Qty: 1)
- Enclosure, Main, Injection Molded Plastic, Clear Coat, Printed - (Qty: 1)
- Wristband B, 2-Shot Injection Molded Polycarbonate & Silicone Rubber - (Qty: 1)
- MCU, 32-Bit, ARM Cortex-M3, 32 MHz, 128KB Flash, 16KB SRAM, 24 Channel x 12-Bit ADC - MFG: ST MICROELECTRONICS - MPN: STM32L151C6H6 - (Qty: 1)
- Bluetooth, Single-Chip, V4.0LE - MFG: NORDIC SEMICONDUCTOR ASA - MPN: nRF8001 - (Qty: 1)
- Bluetooth USB Dongle - (Qty: 1)
- Charging Cable - (Qty: 1)
- Accelerometer, 3-Axis, ±2g/±4g/±8g/±16g, I2C/SPI digital output interface - MFG: ST MICROELECTRONICS - MPN: LIS2DH - (Qty: 1)
- Battery, Li-Polymer, Single Cell, w/ Solder Tabs & 2 Insulated Discrete Wires - (Qty: 1)
- Vibration Motor, Coin Type, w/ 2 Discrete Insulated Wires - (Qty: 1)

Percentage of Total Cost Associated with Various Aspects of Fitbit Flex



Source: IHS

1. MCU

2. Bluetooth chip

3. Accelerometer

IHS parts solution – IHS Electronics360 연계

1. MCU 부품 정보 검색

검색 부품 정보 리스트

Home: Part Search ▸ Part Number Search : All Parts

Category: All Parts — Layout: Default — Clear Sort — 1 to 4 of 4

Rel Info	LC Risk	ENV Risk	SC Risk	Part Number (STM32L151C6H6*)	Mfr Name	CAGE Code	Part Status	Generic	Active Gen
	Low	N/A	Med	STM32L151C6H6	ST Micro	F8859, 50088	Active	STM32L151	246
	Low	N/A	Med	STM32L151C6H6D	ST Micro	F8859, 50088	Active	STM32L151	246
	Low	N/A	Med	STM32L151C6H6DTR	ST Micro	F8859, 50088	Active	STM32L151	246
	Low	N/A	Med	STM32L151C6H6TR	ST Micro	F8859, 50088	Active	STM32L151	246

부품 상세 정보
- 제조사 정보, 지역별 유통망 정보, 환경 규제 정보 등

Home: Part Search ▸ Part Number Search : All Parts ▸ Details [STM32L151C6H6 , ST Micro]

Part Number: STM32L151C6H6 **Mfr Name:** ST Micro **Part Status:** Active **Category :** uPs/uCs/Peripheral ICs

Attributes	Value
Part Status	Active
Description	RISC MICROCONTROLLER
Manufacturer Part Description	ULTRALOW POWER ARM-BASED 32-BIT MICROCONTROLLERS
CAGE Code	F8859, 50088
Generic	STM32L151
uPs/uCs/Peripheral ICs Type	MICROCONTROLLER, RISC
Category	Microcontrollers
Active Generic	246
Active Mfrs	1

Documents
Alerts
Manufacturer
Active Manufacturers
Generic Manufacturers

Generic Mfrs: Part Number: STM32L151C6H6

Part Number	Description
STM32L151RCY6TR	RISC MICROCONTROLLER
STM32L151VCT6DTR	RISC MICROCONTROLLER
STM32L151VCT6	RISC MICROCONTROLLER
STM32L151R6H6TR	32-BIT, FLASH, 32MHz, RISC MICROCONTROLLER, PBGA64
STM32L151R6H6	32-BIT, FLASH, 32MHz, RISC MICROCONTROLLER, PBGA64
STM32L151RDT6DTR	RISC MICROCONTROLLER
STM32L151ZCT6TR	RISC MICROCONTROLLER
STM32L151CCU6	RISC MICROCONTROLLER
STM32L151R6T6	32-BIT, FLASH, 32MHz, RISC MICROCONTROLLER, PQFP64
STM32L151C8T6A	RISC MICROCONTROLLER
STM32L151CBT6A	RISC MICROCONTROLLER

Datasheet

Ultra-low-power 32-bit MCU ARM-based Cortex-M3, 128KB Flash, 16KB SRAM, 4KB EEPROM, LCD, USB, ADC, DAC

Datasheet – production data

Features

- Ultra-low-power platform
  - 1.65 V to 3.6 V power supply
  - **-40°C to 85°C/105°C temperature range**
  - 0.3 µA Standby mode (3 wakeup pins)
  - **0.9 µA Standby mode + RTC**
  - 0.57 µA Stop mode (16 wakeup lines)
  - 1.45 µA Stop mode + RTC
  - 9 µA Low-power Run mode
  - 214 µA/MHz Run mode
  - 10 nA ultra-low I/O leakage
  - < 8 µs wakeup time
- Core: ARM 32-bit Cortex™-M3 CPU
  - From 32 kHz up to 32 MHz max
  - 33.3 DMIPS peak (Dhrystone 2.1)
  - Memory protection unit
- Reset and supply management
  - Ultra-safe, low-power BOR (brownout reset) with 5 selectable thresholds
  - Ultra-low-power POR/PDR
  - Programmable voltage detector (PVD)
- Clock sources
  - 1 to 24 MHz crystal oscillator
  - 32 kHz oscillator for RTC with calibration
  - High Speed Internal 16 MHz factory-trimmed RC (+/- 1%)
  - Internal Low Power 37 kHz RC
  - Internal multispeed low power 65 kHz to 4.2 MHz
  - PLL for CPU clock and USB (48 MHz)
- Pre-programmed bootloader
  - USART supported
- Development support
  - Serial wire debug supported
  - JTAG and trace supported
- Up to 83 fast I/Os (73 I/Os 5V tolerant), all mappable on 16 external interrupt vectors

LQFP100 14 x 14 mm, LQFP64 10 x 10 mm, LQFP48 7 x 7 mm — BGA100 7 x 7 mm, BGA64 5 x 5 mm — UFQFPN48 7 x 7 mm

- Memories
  - Up to 128 KB Flash with ECC
  - Up to 16 KB RAM
  - Up to 4 KB of true EEPROM with ECC
  - 80 Byte Backup Register
- LCD Driver for up to 8x40 segments
  - Support contrast adjustment
  - Support blinking mode
  - Step-up converter on board
- Rich analog peripherals (down to 1.8 V)
  - 12-bit ADC 1 Msps up to 24 channels
  - 12-bit DAC 2 channels with output buffers
  - 2x Ultra-low-power-comparators (window mode and wake up capability)
- DMA controller 7x channels
- 8x peripherals communication interface
  - 1x USB 2.0 (internal 48 MHz PLL)
  - 3x USART (ISO 7816, IrDA)
  - 2x SPI 16 Mbits/s
  - 2x I2C (SMBus/PMBus)
- 10x timers: 6x 16-bit with up to 4 IC/OC/PWM channels, 2x 16-bit basic timer, 2x watchdog timers (independent and window)
- Up to 20 capacitive sensing channels supporting touchkey, linear and rotary touch sensors
- CRC calculation unit, 96-bit unique ID

Table 1. Device summary

Reference	Part number
STM32L151xx	STM32L151C6, STM32L151C8, STM32L151CB, STM32L151R6, STM32L151R8, STM32L151RB, STM32L151V8, STM32L151VB
STM32L152xx	STM32L152C6, STM32L152C8, STM32L152CB, STM32L152R6, STM32L152R8, STM32L152RB, STM32L152V8, STM32L152VB

IHS parts solution – IHS Electronics360 연계

2. Bluetooth chip 부품정보 검색

검색 부품 정보 리스트

Home: Part Search ▸ Part Number Search : All Parts

Category: All Parts — Layout: Default — 1 to 3 of 3

Rel Info	LC Risk	ENV Risk	SC Risk	Part Number (nRF8001*)	Mfr Name	CAGE Code	Part Status	Generic	Active Gen
	Med	Med	Med	NRF8001-R2Q32-R	Nordic Semi		Contact Mfr	NRF8001	
	Med	Med	Med	NRF8001-R2Q32-R7	Nordic Semi		Contact Mfr	NRF8001	
	Med	Med	Med	NRF8001-R2Q32-T	Nordic Semi		Contact Mfr	NRF8001	

Home: Part Search ▸ Part Number Search : All Parts ▸ Details [NRF8001-R2Q32-R , Nordic Semi]

Part Number: NRF8001-R2Q32-R **Mfr Name:** Nordic Semi **Part Status:** Contact Mfr **Category :** Telecom ICs

Attributes	Value
Part Status	Contact Mfr
Description	SPECIALTY TELECOM CIRCUIT, QCC32
Manufacturer Part Description	SINGLE-CHIP BLUETOOTH LOW ENERGY SOLUTION
Manufacturer Package Description	5 X 5 MM, 0.85 MM HEIGHT, 0.50 MM PITCH, GREEN, QFN-32
Generic	NRF8001
EU RoHS Compliant	Yes
HTS Code	8542.39.00.00
SB Code	8542.39.00.00
Telecom IC Type	TELECOM CIRCUIT
Operating Temperature-Max (Cel)	85
Supply Voltage-Nom (V)	3
Operating Temperature-Min (Cel)	-40
Temperature Grade	INDUSTRIAL
Peak Reflow Temperature (Cel)	NOT SPECIFIED

부품 상세 정보
- 제조사 정보, 유통사 별 가격 정보, 재고현황 등

Documents
Environmental / Material
Manufacturer
Distributors

Average Price : 2.7106 (Featured Distributors Highlighted)

Source	Quantity in Stock	Lead Time (Weeks)	Price	Currency	Quantity-Min
Digi-Key	0	3	2.04182	USD	
Arrow	34894		2.28	USD	
VYRIAN	14000				
chip 1 stop	32000		3.81	USD	1
Semiconductor+	21866				

Datasheet

NORDIC SEMICONDUCTOR

3 Product overview

The main features of nRF8001 are the *Bluetooth* low energy PHY and the protocol engine handling the *Bluetooth* low energy link controller and host stack. Additional analog sub-systems needed for the *Bluetooth* low energy operation, such as power management and several oscillator options, are also included.

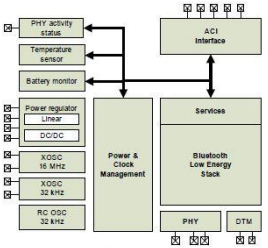


Figure 1. nRF8001 block diagram

nRF8001 offers on-chip non-volatile memory for storing service configurations. This on-chip storage lets you select and combine the necessary services for your application. It also relieves your application processor of the burden of handling all real-time operations in relation to the *Bluetooth* low energy communication protocol.

nRF8001 includes a power supply voltage monitor and a temperature sensor that further reduces the requirements to the application processor. These features are accessible through the serial interface (ACI).

nRF8001 also offers an optional output signal that is activated before the radio becomes active. This timing signal enables you to control the peak current drain of your application, avoiding overload of your power supply (for most applications this is usually a small battery). You can also use this timing signal to control the application circuitry, avoiding noise interference when the nRF8001 radio is operating.

A separate serial interface (UART) gives you access to the *Bluetooth* low energy Direct Test Mode (DTM). This interface is used to control the *Bluetooth* low energy radio (RF PHY) and is supported by commercially available *Bluetooth* test equipment used for *Bluetooth* qualification. This serial interface also enables you to test radio performance and to optimize your antenna.

IHS parts solution – IHS Electronics360 연계

3. Accelerometer 부품정보 검색

Home: Part Search ▸ Part Number Search : All Parts

Category: All Parts — Layout: Default — 1 to 4 of 4

Rel Info	LC Risk	ENV Risk	SC Risk	Part Number (LIS2DH*)	Mfr Name	CAGE Code	Part Status	Generic	Active
	High	Med	Med	LIS2DH	ST Micro	F8859, 50088	EOL		
	High	Med	Med	LIS2DH12	ST Micro	F8859, 50088	EOL	LIS2DH12	1
	Low	Med	Low	LIS2DH12TR	ST Micro	F8859, 50088	Active	LIS2DH12	1
	Low	Low	Med	LIS2DHTR	ST Micro	F8859, 50088	Active		

Home: Part Search ▸ Part Number Search : All Parts ▸ Details [LIS2DH , ST Micro]

Part Number: LIS2DH **Mfr Name:** ST Micro **Part Status:** EOL **Category :** Other Semiconductors

Attributes	Value
Part Status	EOL
Description	IC,ACCELERATION DETECTOR,CMOS,LLCC,14PIN,PLASTIC
CAGE Code	F8859, 50088
EU RoHS Compliant	Yes
Life Cycle Stage	Phase-Out
Life Cycle Code	4.9
Availability(YTEOL)	< 1
Estimated YTEOL	0.49
Alert/Prediction Date	16-Jan-2015
Comments	SLOW MOVING
Supply Voltage-Nom (Vsup) (V)	2.5
Operating Temperature-Max (Cel)	85
Operating Temperature-Min (Cel)	-40
LTB Date	23-Jul-2015
DLA Qualification	Not Qualified
Power Supplies (V)	2.5
Temperature Grade	INDUSTRIAL

Documents

Alerts

Environmental / Material

Docs | EU RoHS

Attributes	Value
Compliant	Yes
Last Verified	13-Aug-2013

부품 상세 정보
- 제조사 정보, 부품 변동사항
히스토리, 환경 규제 준수 현황 등

환경 규제 준수 상세 정보

STMicroelectronics International N.V.
Branch office of Plan-les-Ouates
Chemin du Champ des Filles 39
1228 Plan-les-Ouates
Switzerland

Geneva, December 18, 2014

Object: REACH Communication to Customers

Dear Customer,

European Regulation N°1907/2006 "REACH" (Registration, Evaluation, and Authorization of Chemicals), went into effect on June 1st, 2007 (See http://www.reach-compliance.eu/). It aims at regulating the use of chemical substances within the European Union.

This is to inform you that STMicroelectronics is perfectly aware of the projected timetable to comply with this regulation, and that we are committed to meet our legal obligations under REACH, as a manufacturer, importer of articles and as a downstream user of chemicals products.

Being well aware of the REACH initiatives, we have established a multi-disciplinary corporate team to oversee implementation and compliance with all aspects of the Regulation:

- Registration of Substances,
- Assessment of presence of Substances of Very High Concern (SVHC),
- Communication along the supply chain to suppliers and customers,
- Application of Substances Exposure Scenario,
- Restriction of Use according to Annex XVII,
- Authorization of Use according to Annex XIV.

It is our intention to ensure full registration of substances included in chemical products and articles used in our manufacturing processes through our own suppliers. We have already received confirmation from our suppliers having fulfilled the registration deadline of November 30th 2010 and May 31st 2013, for low tonnage substances. Regarding the other substances which have to be registered before May 31st 2018, we will closely follow the future registration deadline of 2018.

Moreover we constantly assess the presence of Substances of Very High Concern in the products used within our premises and in ST products, having a full visibility of our supplier deliveries and updating it at each new SVHC candidate list release.

All of ST products fall under the following categories within the REACH Regulation

- None of them presents the notion of intentional release of Substances; therefore no obligation of registration applies for STMicroelectronics.
- All of them are excluded from the application of Annex XVII restrictions on articles.

IHS Part Management Solution answers you …

- BOM Managing
- BOM Reporting
- Corporate Part Managing
- Alternates Parts
- Environmental Materials

전자부품관리 툴, 컨텐츠를 총망라한 토탈 솔루션

- Parts Lifecycle
- Authorized Distributors
- Pricing & Availability
- Haystack /DoD Logistics
- IHS Electronics 360 market trend

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