

# EBOM-Integrated Electronics Market & Cost Intelligence

## Excel-Embedded Version

*powered by*

**etit systems**

Excellence in Electronics Cost Intelligence

*Document version: March 16, 2026*

Founded in 2015 in Karlsruhe, Germany, we deliver a Market & Cost Intelligence Platform for electronic components and EBOMs – combining powerful software and expert consulting to help engineering, sourcing, purchasing, and cost teams make faster, data-driven component decisions.



## Who We Serve

For companies that need to understand, control, and optimize the true cost of electronic components and EBOMs.

- Cost engineering & value analysis teams
- Original Equipment Manufacturers (OEM)
- R&D & design engineering
- Sourcing & procurement teams
- Electronics Manufacturing Services (EMS)

## Trusted Across Industries

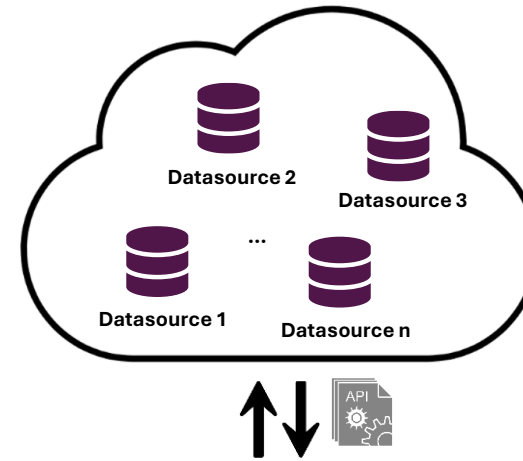
Our solutions are trusted across a wide range of industries – wherever electronic components are sourced, priced, and managed.

- Automotive & E-Mobility
- Industrial Automation
- Medical Devices
- Aerospace & Defense
- Energy & Infrastructure
- Telecommunications
- Consumer Electronics
- Railway & Transportation

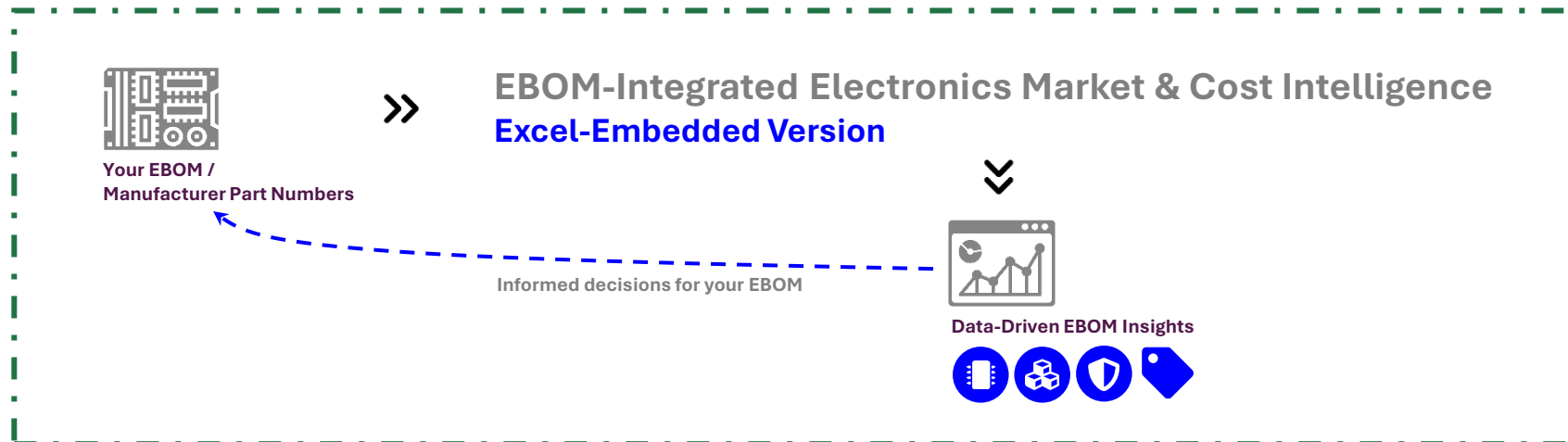
## How it works System overview



Connect market and cost intelligence directly to your EBOM – or start with just a single part number.



Stay in your reliable Microsoft Excel Environment:



**Excel-native**  
Works directly within your existing EBOM structure.



**Data Sovereignty**  
Your data stays with you. No cloud dependency, full control.



**Scalable**  
From a single user to enterprise-wide rollout, flexibly expandable.



**Instantly Productive**  
Integration in minutes.

# Key Capabilities – EBOM-Integrated Market & Cost Intelligence Platform

Your all-in-one toolkit to analyze, evaluate, and benchmark complete EBOMs and electronic components – directly in Excel.

## Search & Analysis



Quick Search



Multiple Search



Parametric Search

Search individual components, complete EBOMs, or run targeted parameter searches – from single part lookups to full EBOM analysis in one pass.

## Component Intelligence



Part Details & Lifecycle



ECAD & Design



Compliance & Qualification

Technical product attributes, ECAD models, supply chain information, alternative components, lifecycle and YTEOL data, as well as compliance and qualification data – all per component, one query.

## Market & Costs



Shadow Calc



Market Trends



Quote Pricing

Compare market and quote prices across multiple sources, track price trends over time, and benchmark component costs to identify savings potential – all data-driven, all in one place.

## Real-Time APIs



Live Data



Leading Databases

All data is retrieved live from market-leading databases via APIs – no local storage, no outdated records, every query delivers the current market status.

### Optional Integration:



1-click export for the  
**costdata**® calculation  
seamless calculation integration



**The impact of having real-time component data directly where your teams work.**

### 01 – Reduce time spent on component research

Prices, availability, component information, and lifecycle data are manually researched across multiple sources. Evaluating alternative components and technical attributes also requires time-consuming datasheet comparisons – a process that can be automated.

### 02 – Create market price transparency

All available price points – current market prices, contract prices, supplier quotes, and historical pricing – at a glance. A benchmark for procurement negotiations and for objectively verifying whether component costs are in line with the market – or overpriced.

### 03 – Select the right components from the start

Status, RoHS compliance, REACH, and risk assessment are available right at the component selection stage – complemented by current market prices and lead times. Components facing upcoming obsolescence, unfavorable pricing, or long lead times are identified early, before they enter the design. Fewer redesigns, lower follow-up costs, better design-to-cost decisions.

### 04 – Work with shared data across teams

Engineering, purchasing, cost engineering, and product management all work from the same up-to-date data – directly in Excel, without switching systems. Alignment becomes more productive when everyone is looking at the same data.

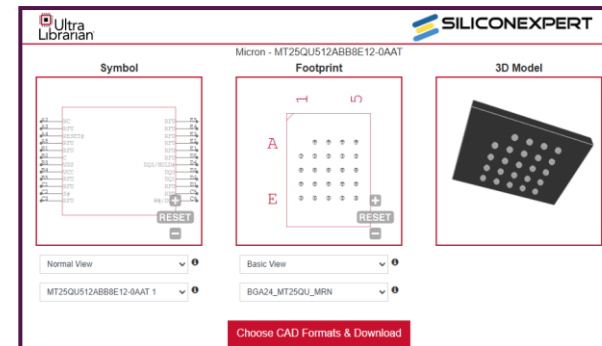
**Faster component research, better pricing transparency, and smarter design decisions.**

## Part Details – Complete Component Intelligence in One Query

Every component in the EBOM delivers a complete picture at the push of a button – technical, regulatory, and commercial:

- **Technical Product Attributes**
  - All relevant component parameters – from electrical specifications to package data and pin-out information – structured and instantly accessible.
- **ECAD & Design Resources**
  - Symbol, footprint, and 3D model directly from the EBOM – available for download in all common CAD formats from Altium to Zuken. No system switching, no separate login.
- **Compliance & Regulatory**
  - RoHS, REACH, ECCN, TARIC, HTS, and US-China tariff impact per component – fully documented, audit-ready, and accessible at any time. No manual checks across external databases.
- **Qualification & Industry Requirements**
  - AEC-Q status, PPAP, military specifications, RadHard, and ESD class – for industries where qualification determines deployment.
- **Supply Chain & Risk**
  - Authorized distributors, current stock levels, manufacturing data, and counterfeit risk assessment per component – for secure procurement across the entire product lifecycle.
- **Alternative Components**
  - Cross-references and functional equivalents directly available – informed component decisions instead of time-consuming datasheet comparisons.

Parameter	Value
1) Part Number	MT25Q128
2) Part Name	MT25Q128
3) Part Type	MT25Q128
4) Part Description	MT25Q128
5) Part Category	MT25Q128
6) Part Manufacturer	MT25Q128
7) Part Package	MT25Q128
8) Part Pin Count	MT25Q128
9) Part Pin Configuration	MT25Q128
10) Part Pin 1	MT25Q128
11) Part Pin 2	MT25Q128
12) Part Pin 3	MT25Q128
13) Part Pin 4	MT25Q128
14) Part Pin 5	MT25Q128
15) Part Pin 6	MT25Q128
16) Part Pin 7	MT25Q128
17) Part Pin 8	MT25Q128
18) Part Pin 9	MT25Q128
19) Part Pin 10	MT25Q128
20) Part Pin 11	MT25Q128
21) Part Pin 12	MT25Q128
22) Part Pin 13	MT25Q128
23) Part Pin 14	MT25Q128
24) Part Pin 15	MT25Q128
25) Part Pin 16	MT25Q128
26) Part Pin 17	MT25Q128
27) Part Pin 18	MT25Q128
28) Part Pin 19	MT25Q128
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34) Part Pin 25	MT25Q128
35) Part Pin 26	MT25Q128
36) Part Pin 27	MT25Q128
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101) Part Pin 92	MT25Q128
102) Part Pin 93	MT25Q128
103) Part Pin 94	MT25Q128
104) Part Pin 95	MT25Q128
105) Part Pin 96	MT25Q128
106) Part Pin 97	MT25Q128
107) Part Pin 98	MT25Q128
108) Part Pin 99	MT25Q128
109) Part Pin 100	MT25Q128



Screenshots: Part Details and ECAD Models

One query. All information. From specification to compliance.

# EBOM-integrated Quick Search – Market Intelligence at the Push of a Button

Users can search and instantly retrieve any individual component (MPN) directly from the EBOM cell:

- Live market prices with quantity-based price breaks and total amounts
- Real-time stock & availability from authorized distributors
- Lifecycle status, RoHS compliance & YTEOL risk assessment
- Full attributes: descriptions, datasheets, ECAD models, taxonomy & alias data
- Form, fit & function alternatives via MatchRating & PiName classification

Search filters include "Authorized Only", "Partial / Exact MPN Matching", "MOQ Met" and "Price Available Only" – giving cost value engineers precise control over results.

Supplier	Order Code	MPN	Manufacturer	Description	Stock	MOQ	CUR	Price Tiers	Price @100	Total Amount	Category	Authorized	Median@1000
Verical	AD767JNZ	AD767JNZ	Analog Devices	D/A Converter, 1 Func, Serial Input Loading, Bus Settling Time, PDIP24	815	15	EUR	15 : 31,87 2 : 83,60	31,8700	3.187,00	Analog to Digital Converters (ADCs)	true	38,7800
Arrow Electronics	AD767JNZ	AD767JNZ	Analog Devices	D/A Converter, 1 Func, Serial Input Loading, Bus Settling Time, PDIP24	0	15	EUR	15 : 36,58	36,5800	3.658,00	Analog to Digital Converters (ADCs)	true	38,7800
DigiKey	AD767JNZ-ND	AD767JNZ	Analog Devices	D/A Converter, 1 Func, Serial Input Loading, Bus Settling Time, PDIP24	273	1	EUR	1 : 48,49 15 : 38,95 30 : 48,49 105 : 35,42	35,4200	3.719,10	Analog to Digital Converters (ADCs)	true	38,7800
Richardson RFPD	AD767JNZ	AD767JNZ	Analog Devices	D/A Converter, 1 Func, Serial Input Loading, Bus Settling Time, PDIP24	3	15	EUR	15 : 38,78	38,7800	3.878,00	Analog to Digital Converters (ADCs)	true	38,7800

PartNumber	Manufacturer	Description	Datasheet	Lifecycle	YEOL	RoHS	RoHSVersion	MatchRating	PiName	TaxonomyPath	ECADModels	AliasData
AD767JNZ	Analog Devices	DAC 1-CH Current Steering 12-bit 24-Pin PDIP N Tube	<a href="#">Datasheet</a>	NRND	1	Yes	2011/65/EU, 2015/863	Exact	Digital to Analog Converters - DACs	Data Acquisition > Data Converters > Digital to Analog Converters - DACs	Sch.Y PCB.Y 3D.Y	

Screenshots: Quick Search – single MPN query with pricing, stock, lifecycle & component attributes, and more.

**Time savings: Component research reduced from several minutes to seconds per component.**

## Multiple Search – Process an Entire EBOM in One Pass

Process an entire bill of materials in one pass – no more manual single queries:

- Search all rows simultaneously with a single click
- Internal Part Number (IPN) mapping for full traceability
- Batch quantity scaling – enter lot size and let total procurement quantities calculate automatically
- Quote price integration – compare negotiated contract prices directly with live market prices
- Supplier, order number, description, stock, MOQ & price per BOM line – ready for analysis

POSITION	INTERNAL PART NUMBER (IPN)	DESCRIPTION / KEY PARAMETERS	QUANTITY	DESIGNATOR	MANUFACTURER PART NUMBER 1	MANUFACTURER 1
1	WORKS-IPN_0001	MultiLayer Ceramic Capacitor 0.1uF 50 V ±10% X7R 0402	4	C1, C2, C3, C4	GCM155R71H104KE02J	MURATA
2	WORKS-IPN_0002	MultiLayer Ceramic Capacitor 0.022uF 50V ±10% X7R 0402	3	C9, C10, C11	GRM155R71H023KA12D	MURATA
3	WORKS-IPN_0003	MultiLayer Ceramic Capacitor 4.7uF 10V ±10% X5R 0603	2	C5, C8	C0603C475K8PACTU	KEMET
4	WORKS-IPN_0004	MultiLayer Ceramic Capacitor 10uF 50V ±10% X5R 1206	1	C7	GRT31CR61H106KE01L	MURATA
5	WORKS-IPN_0005	Surface Mount Ceramic Multilayer Capacitor 220pF 10% X7R 50V 0805	1	C5	CC0805K8X7R98B221	YAGEO
6	WORKS-IPN_0006	Res Thick Film 0402 5.60Ohm 1% 0.1W ±200ppm/C	4	R2, R3, R4, R5	RK73H1E1TPP5R60F	KOA SPEER
7	WORKS-IPN_0007	Res Thick Film 0603 10K0Ohm 1% 1/10W ±100ppm/C	1	R1	CRW060310K0FKEA	VISHAY
8	WORKS-IPN_0008	Resistor Thick Film SMD 1206 3.3kOhm 0.25W ±1%	2	R6, R7	RC1206FR-073K3L	YAGEO
9	WORKS-IPN_0009	Resistor SMD 4.70K 0402 1/16W 1%	3	R8, R9, R10	CRW04024K70FKED	VISHAY
10	WORKS-IPN_0010	Buffer/Line Driver 8-Ch Non-Inverting 3-ST CMOS Automotive 20-Pin SOIC T/R	1	H1	SN74HC244DWRG4Q1	TEXAS INSTRUMENTS
11	WORKS-IPN_0011	IC Mcu 16 Bit 64KB Flash 64IOP	1	H2	99S12054AMUHR	NXP
12	WORKS-IPN_0012	LM2904 Series 30 V 700 uA SMT Low Power Dual Operational Amplifier - SOIC-8	2	H3, H4	LM2904VYDT	ST MICROELECTRONICS
13	WORKS-IPN_0013	Automotive 2-ch, 2-input, 1.65-V to 5.5-V OR gates 8-VSSOP-40 to 125	1	H5	SN74VCG232DQURQ1	TEXAS INSTRUMENTS
14	WORKS-IPN_0014	BSS138BK Series 60 V 1.6 Ohm 350 mW 0.7 nC N-Channel SMT TrenchMOS FET - SOT-23	2	Q1, Q2	BSS138BK215	NEPERIA
15	WORKS-IPN_0015	LED GREEN DIFFUSED 0805 SMD / LED Uni-Color Green 570nm 2-Pin Chip LED	2	D1, D2	HSMG-170	BROADCOM
16	WORKS-IPN_0016	WE-GF Series, Wire-wound SMD Inductor with Ferrite Core; 1 uH	1	L1	744764D1	WURTH ELEKTRONIK
17	WORKS-IPN_0017	Conn Power HDR 3 POS 4.2mm Solder ST Thru-Hole 4 Terminal 1 Port Mini-Fit+ Plus Frame	2	X1, X2	46024-0204	MOLEX
18	WORKS-IPN_0018	Linear Voltage Regulator IC Positive Fixed 1 Output 150mA 6-WSON (2x2)	1	U1	TPS70933DRVR	TEXAS INSTRUMENTS
19	WORKS-IPN_0019	Small Signal Schottky Diode, Single, 30 V, 200 Ma, 800 Ma, 600 Ma, 150 C	3	D3, D4, D5	8ATS4HTJG	ONSEMI
20	WORKS-IPN_0020	TEXAS INSTRUMENTS LM317EMP/NOPB/LDO VOLTAGE REGULATOR ADJUSTABLE, 1.2V-37V, 1A, 50V 223-A, REEL REEL	1	U2	LM317EMP/NOPB	TEXAS INSTRUMENTS
21	WORKS-IPN_0021	Discrete X0 32.768MHz ±50ppm CMOS 60n 3.3V 4-Pin SMD T/R	1	Q21	75P-32.768MBB-T	TXC
22	WORKS-IPN_0022	CPD MAX 7000S Family 1.25k Gates 64 Macro Cells 125MHz CMOS Technology 5 Volt 44-Pin TOFP	1	H6	EPM70645TC44-10N	INTEL / ALTERA
23	WORKS-IPN_0023	Cermet trimmer potentiometer, 15 turns, 20 kOhm, 0.75 W, THF, wideuse	1	P1	3006P-1-20B/F	BOURNS
24	WORKS-IPN_0024	Aluminum Electrolytic Capacitor, 330 uF, 35 V, ±20%, 2000 hours @ 105°C, Radial Can - SMD	3	C12, C13, C14	EEE-FK1V331P	PANASONIC
25	WORKS-IPN_0025	Tfp ±10% 35V SMD Tantalum Capacitor Case B	2	C15, C16	T4918105K035AT	KEMET

Screenshot: EBOM.xlsx



#	InternalPartNumber (IPN)	Comment	Quantity	ManufacturerPartNumber (MPN) (Inventory/Supply)	Quantity/Unit (Inventory/Supply)	TotalQuantity/Unit (For Batch Size: 1000)	Selected MPN	Selected Manufacturer	Supplier	Order Code	Description	Stock	MOQ	Unit Price
1	WORKS-IPN_0001	MultiLayer Ceramic Capacitor 0.1uF 50 V ±10% X7R 0402	4	GCM155R71H104KE02J	4	4000	GCM155R71H104KE02J	Murata	Chip One Stop	GCM155R71H104KE02J	50V 100pF X7R ±10% 0402 Multilayer Ceramic Capacitors MLC - SMD0402 100%	50027	10	EUR
2	WORKS-IPN_0002	MultiLayer Ceramic Capacitor 0.022uF 50V ±10% X7R 0402	3	GRM155R71H023KA12D	3	3000	GRM155R71H023KA12D	Murata	Anglia	GEM155R71H023KA12D	50V 22pF X7R ±10% 0402 Surface Mount Multilayer Ceramic Chip Capacitor	707024	50	EUR
3	WORKS-IPN_0003	MultiLayer Ceramic Capacitor 4.7uF 10V ±10% X5R 0603	2	C0603C475K8PACTU	2	2000	C0603C475K8PACTU	KEMET	TME	C0603C475K8PACTU	4.7uF 10V ±10% X5R 0603 Multilayer Ceramic Capacitors MLC - SMD0603 100%	1458	1	EUR
4	WORKS-IPN_0004	MultiLayer Ceramic Capacitor 10uF 50V ±10% X5R 1206	1	GRT31CR61H106KE01L	1	1000	GRT31CR61H106KE01L	Murata	Anglia	GRT31CR61H106KE01L	10uF 50V ±10% X5R 1206 Multilayer Ceramic Capacitors MLC - SMD1206 100%	0	50	EUR
5	WORKS-IPN_0005	Surface Mount Ceramic Multilayer Capacitor 220pF 10% X7R 50V 0805	1	CC0805K8X7R98B221	1	1000	CC0805K8X7R98B221	Yageo Group	Conrad	279814	220pF 10% X7R 50V 0805 Surface Mount Ceramic Multilayer Capacitor	2	0	EUR
6	WORKS-IPN_0006	Res Thick Film 0402 5.60Ohm 1% 0.1W ±200ppm/C	4	RK73H1E1TPP5R60F	4	4000	RK73H1E1TPP5R60F	KOA Speer	Farnell	2531386	Res Thick Film 0402 5.6 Ohm 1% 0.1W ±200ppm/C	10879	500	EUR
7	WORKS-IPN_0007	Res Thick Film 0603 10K0Ohm 1% 1/10W ±100ppm/C	1	CRW060310K0FKEA	1	1000	CRW060310K0FKEA	Vishay	Arrow Electronics	CRW060310K0FKEA	Fixed Resistor, Metal Core Thick Film, 0.1W, 1% Tol, Surface Mount, 0603, ±50mV Thick Film Resistor, 100ppm/°C	9124	1	EUR
8	WORKS-IPN_0008	Resistor Thick Film SMD 1206 3.3kOhm 0.25W ±1%	2	RC1206FR-073K3L	2	2000	RC1206FR-073K3L	Yageo Group	TME	RC1206FR-073K3L	Resistor, 100ppm/°C, 3.3k 1206 Chip Resistor Surface Mount Rohns - Resistor Thick Film	70328	1	EUR
9	WORKS-IPN_0009	Resistor SMD 4.70K 0402 1/16W 1%	3	CRW04024K70FKED	3	3000	CRW04024K70FKED	Vishay	Arrow Electronics	CRW04024K70FKED	Resistor 50V ±1%, 150ppm/°C, 4.7k 0402 Chip Resistor - Surface Mount Rohns	1549	1	EUR
10	WORKS-IPN_0010	Buffer/Line Driver 8-Ch Non-Inverting 3-ST CMOS Automotive 20-Pin SOIC T/R	1	SN74HC244DWRG4Q1	1	1000	SN74HC244DWRG4Q1	Texas Instruments	Texas Instruments	SN74HC244DWRG4Q1	Buffer/Line Driver 8-Ch Non-Inverting 3-ST CMOS Automotive 20-Pin SOIC T/R	0	1	EUR
11	WORKS-IPN_0011	IC Mcu 16 Bit 64KB Flash 64IOP	1	99S12054AMUHR	1	1000	99S12054AMUHR	NXP Semiconductors	Rochester Electronics	99S12054AMUHR	912 Core 16-Bit 64KB Flash 64IOP	1407	0	EUR
12	WORKS-IPN_0012	LM2904 Series 30 V 700 uA SMT Low Power Dual Operational Amplifier - SOIC-8	2	LM2904VYDT	2	2000	LM2904VYDT	STMicroelectronics	Anglia	LM2904VYDT	LM2904VYDT 30V 700uA SMT Low Power Dual Operational Amplifier - SOIC-8	12500	1	EUR
13	WORKS-IPN_0013	Automotive 2-ch, 2-input, 1.65-V to 5.5-V OR gates 8-VSSOP-40 to 125	1	SN74VCG232DQURQ1	1	1000	SN74VCG232DQURQ1	Texas Instruments	Texas Instruments	SN74VCG232DQURQ1	Automotive 2-Ch, 2-Input, 1.65-V to 5.5-V OR Gates 8-VSSOP-40 to 125	0	1	EUR
14	WORKS-IPN_0014	BSS138BK Series 60 V 1.6 Ohm 350 mW 0.7 nC N-Channel SMT TrenchMOS FET - SOT-23	2	BSS138BK215	2	2000	BSS138BK215	NEPERIA	Conrad	BSS138BK215	BSS138BK215 60V 1.6 Ohm 350mW 0.7nC N-Channel SMT TrenchMOS FET - SOT-23	0	1	EUR

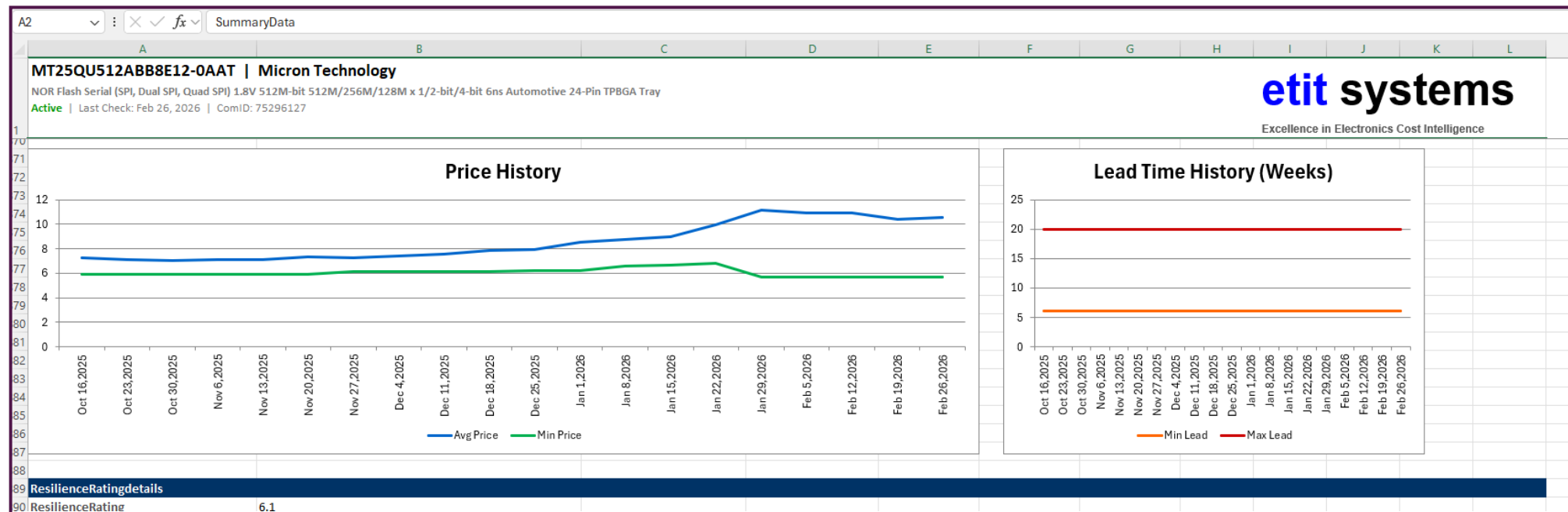
Screenshot: Multiple Search – complete EBOM batch processing with IPN mapping, lot size scaling & quote price comparison.

Result: A 291-line BOM fully priced in minutes instead of days.

## EBOM-Integrated Market Trends – Price & Lead Time Intelligence

Users can analyze historical market data for individual components directly from the EBOM, including:

- Historical price trends with average and minimum market prices
- Lead time development across multiple distributors
- Early detection of price increases or supply shortages
- Data-driven insights to support sourcing and cost planning decisions
- Enhanced risk monitoring for critical components



Screenshot: Market Trends – historical price and lead time analysis for electronic components.

**Prevention: Detect price increases & supply shortages weeks in advance.**

# Shadow Calculation – Track Market Price Changes Over Time

Capture and compare market price snapshots at different points in time to track price movements and optimize sourcing:

- Multiple time-stamped snapshots stored side by side (e.g. Shadow #1 vs. Shadow #2...)
- Automatic calculation of  $\Delta$ Price,  $\Delta$ Price%,  $\Delta$ Total &  $\Delta$ Total% per supplier
- Direct comparison across multiple suppliers
- Drill-down detail view per supplier and snapshot for full transparency
- Structured audit trail of price movements for cost reporting and management reviews

The screenshot displays the etit systems Shadow Calc interface. The main table shows supplier information for 24.01.2026 09:11. Two detailed pop-up windows are shown: Shadow #1 (14.02.2026 07:18) and Shadow #2 (17.03.2026 12:35). The tables show columns for Order Code, Description, Stock, MOQ, CUR, Preis @QTY, Total Amount, Category, Authorized, Last Update, Shd Supplier, Shd Price,  $\Delta$ Price,  $\Delta$ Price %, Shd Total,  $\Delta$ Total,  $\Delta$ Total %, and Shd Details.

Order Code	Description	Stock	MOQ	CUR	Preis @QTY	Total Amount	Category	Authorized	Last Update
N74HC244QDWRG4Q1C	Buffer/Line Driver 8-CH Non-Inverting 3-ST CMOS Automotive 20-Pin SOIC TAND	1748	1	EUR	0,4664	2.332,15	Buffers, Drivers and Transceivers	true	2026-03-16T13:03:00.000Z
S9512G64AMLHR	S13 Core 64K Flash/ Steel Robo Compliant Yes   NXP Semiconductors S9512G64AMLHR	9000	1500	EUR	4,2714	21.357,00	Microcontrollers	true	2026-03-16T17:57:35.000Z
LM2904WYT	Dual 20mA 0.6V/us 1.1MHz 7mV SOIC-8 Operational Amplifier ROHS	0	1	EUR	0,1100	1.100,00	Amplifiers - Op Amps, Buffer, Instrumentation	true	2026-03-16T15:00:32.000Z

Shadow #1 — 14.02.2026 07:18										Shadow #2 — 17.03.2026 12:35									
Shd Supplier	Shd Price	$\Delta$ Price	$\Delta$ Price %	Shd Total	$\Delta$ Total	$\Delta$ Total %	Shd Details	Shd Supplier	Shd Price	$\Delta$ Price	$\Delta$ Price %	Shd Total	$\Delta$ Total	$\Delta$ Total %	Shd Details				
Texas Instruments	0,3930	-0,0734	-15,7%	1.965,00	-367,15	-15,7%	Details	Texas Instruments	0,3930	-0,0734	-15,7%	1.965,00	-367,15	-15,7%	Details				
Rochester Electronics	3,3500	-0,9214	-21,6%	16.750,00	-4.607,00	-21,6%	Details	Avnet	4,0405	-0,2309	-5,4%	20.202,70	-1.154,30	-5,4%	Details				
Future Electronics	0,0803	-0,0297	-27,0%	803,00	-297,00	-27,0%	Details	Future Electronics	0,0803	-0,0297	-27,0%	803,00	-297,00	-27,0%	Details				
DigiKey	0,3128	+0,0548	+21,2%	1.564,10	+274,10	+21,2%	Details	Rochester Electronics	0,3636	+0,1056	+40,9%	1.818,00	+528,00	+40,9%	Details				
Arrow Electronics	0,0213	0,0000	0,0%	213,00	0,00	0,0%	Details	Arrow Electronics	0,0213	0,0000	0,0%	213,00	0,00	0,0%	Details				
Farnell	0,0675	+0,0083	+14,0%	675,00	+83,00	+14,0%	Details	RS	0,0630	+0,0038	+6,4%	630,00	+38,00	+6,4%	Details				

Screenshots: Shadow Calc – time-stamped price snapshots with automatic delta analysis across suppliers.

Transparency: Compare market prices, identify trends, and uncover cost risks – before they escalate.

## Parametric Search – Find Components by Technical Specifications

Find components based on their technical characteristics – independent of any single distributor's portfolio:

- Hierarchical category selection with configurable feature filters
- Narrow down by electrical parameters, package, technology, and special characteristics
- Break down existing MPNs into detailed technical product attributes
- Systematically identify functionally equivalent alternatives instead of manually comparing datasheets

The screenshot displays the SE Parametric Search tool interface. It is divided into several sections:

- Category Selection:** A tree view on the left shows a hierarchy from 'Semiconductor' to 'Passive' to 'Electrical and Electronic Components' to 'Capacitors'. The right side shows the selected path: 'Capacitors (8736487)' > 'Fixed Capacitors (195398)' > 'Capacitor Ceramic Multilayer (75200)'.
- Feature Filters:** A section with tabs for 'Technology', 'Microwave Application', 'Packaging', 'Special Features', and 'Product Height'. The 'Technology' tab is active, showing options like 'Open Mode', 'Soft Termination', and 'Standard'. The 'Packaging' tab shows 'Reel' and 'Tape and Reel'. The 'Special Features' tab shows 'High Dielectric Constant' and 'Wide Capacitance'. The 'Product Height' tab shows values from 0.85 to 1.6.
- Search Results:** A table at the bottom lists 16 parts found. The table has columns for Part Number, Manufacturer, Part Description, Data Provider ID, Capacitance Value, Voltage, Tolerance, Dielectric, Temperature Coeff., Technology, and Package.

Part Number	Manufacturer	Part Description	Data Provider ID	Capacitance Value	Voltage	Tolerance	Dielectric	Temperature Coeff.	Technology	Package
CL31B104KCFNNE	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	45197758	0.1uF	100VDC	10%	X7R	#15%	Standard	1206
CL31B104KCFNNE	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	45433408	0.1uF	100VDC	10%	X7R	#15%	Standard	1206
CL31B104KCFNNE	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	402551231	0.1uF	100VDC	10%	X7R	#15%	Soft Termination	1206
CL31B104KCFVNE	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 OM	92482511	0.1uF	100VDC	10%	X7R		Open Mode	1206
CL31B104KCFNNE	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	78971222	0.1uF	100VDC	10%	X7R		Standard	1206
CL31B104KCFNNE	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	45433274	0.1uF	100VDC	10%	X7R		Standard	1206
CL31B104KCFNNE	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 OM	92482505	0.1uF	100VDC	10%	X7R		Open Mode	1206
CL31B104KCFNNE	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	184925211	0.1uF	100VDC	10%	X7R		Standard	1206
CL31B104KCFNNE	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	420205952	0.1uF	100VDC	10%	X7R	#15%	Standard	1206
CL31B104KCFNNE	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	1851903760	0.1uF	100VDC	10%	X7R		Standard	1206
CL31B104KCFNNE	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	407887306	0.1uF	100VDC	10%	X7R		Standard	1206
CL31B104KCFNND	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	185444729	0.1uF	100VDC	10%	X7R	#15%	Standard	1206
CL31B104KCFNNS	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	185444723	0.1uF	100VDC	10%	X7R	#15%	Standard	1206
CL31B104KCFNND	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	45434531	0.1uF	100VDC	10%	X7R		Standard	1206
CL31B104KCFNND	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	45434914	0.1uF	100VDC	10%	X7R		Standard	1206
CL31B104KCFNND	Samsung Electro-Mechanics	Cap Ceramic 0.1uF 100V X7R 10% Pad SMD 1206 125	408461056	0.1uF	100VDC	10%	X7R		Standard	1206

Screenshot: SE Parametric Search

From specification to component – and from component to alternative.

# costdata® calculation – Automatic Purchased Parts Template Generation

Generate a fully structured costdata® calculation export template with a single click, pre-filled with all EBOM component and pricing data:

- Part identity, category, description, part number & manufacturer – all pre-filled
- MPN, unit price & quantity automatically included
- Fully compatible with the costdata® calculation Excel data structure
- Eliminates manual data entry – entire EBOM import-ready in seconds

Lookup Criteria				Matched Part Information						Supplier
Quote Pricing	Manufacturer/PartNumber (MPN) (mandatory input)	Quantity/Unit (mandatory input)	Total Quantity/Batch (For Batch Size: 100)	Selected MPN	Selected Manufacturer	Supplier	Order Code	Description	Stock	MOQ
	NSPM2051MUT5G	3	300	<a href="#">NSPM2051MUT5G</a>	onsemi	Mouser	<a href="#">863-NSPM2051MUT5G</a>	Trans Voltage Suppressor Diode, 5V V(RWM), Unidirectional, 1 Element, Silicon	113	1
	TPD4E02B04DQAR	2	200	<a href="#">TPD4E02B04DQAR</a>	Texas Instruments	Texas Instruments	<a href="#">TPD4E02B04DQAR</a>	TVS DIODE 3.6V 8.8V 10USON / 4-Channel ESD Protection Diode for USB Type-C and HDMI 2.0	0	1
	TPD4E05U06DQAR	1	100					2.5A 14V 40W 6V Unidirectional 5.5V		
	BZT52C15	2	200							
	BZT52C12-7-F	3	300							
	SMDJ58CA	5	500							

Identity	Group	Category	Name	Part number	Manufacturer	Manufacturer part number	Price	Quantity	Unit	Currency
costdata®	excel data structure	product calculation	2.9.29				04.03.2026			
PurchasedParts	2.0.1	culture	en-US							
		TVS Diodes	Trans Voltage Suppressor Dic	V007903	onsemi	NSPM2051MUT5G	0,11	3	Piece	EUR
		TVS Diodes	TVS DIODE 3.6V 8.8V 10USON	V007877	Texas Instruments	TPD4E02B04DQAR	0,251	2	Piece	EUR
		ESD and Circuit Protection IC:	2.5A 14V 40W 6V Unidirection	V007878	Texas Instruments	TPD4E05U06DQAR	0,24	1	Piece	EUR
		Zener Diodes	BZT52C12 Series 500 mW 12 V	V008356	Diodes Inc.	BZT52C12-7-F	0,01166	3	Piece	EUR
		TVS Diodes	Trans Voltage Suppressor Dic	V008305	Eaton	SMDJ58CA	0,3214	5	Piece	EUR
		Rectifier Diodes	LOW LEAKAGE SWITCHING DI	V007906	onsemi	BAS21AHT1G	0,056	2	Piece	EUR
		LEDs	LED Low-Power Uni-Color Gri	V003577	Lumex	SML-LX0402SUGC-TR	0,205	7	Piece	EUR
		LEDs	1.0X0.5Mm Smt Led, 636Nm /	V003576	Lumex	SML-LX0402SIC-TR	0,139	1	Piece	EUR
		Schottky Diodes	Small Signal Schottky Diode,	V009184	onsemi	NSR0340P2T5G	0,0221	9	Piece	EUR
		DIODE; Schottky; Vr: 40V; If:	V009184			NSR0340P2T5G	0	0	Piece	
		TVS Diodes	SMCJ Series 162 V 1.5 kW Sur	V003610	Littelfuse	SMCJ10CA	0,1938	1	Piece	EUR
		Zener Diodes	Zener Single Diode, 15 V, 200	V009266	Multicomp	BZT52C15S-7-F	0,028	5	Piece	EUR
		Zener Diodes	SURFACE MOUNT ZENER DIOI	V007255	Diodes Inc.	BZT52C15SQ-7-F	0,0345	5	Piece	EUR
		Rectifier Diodes	S1AFL Series 50 V 1 A Surface	V008507	onsemi	S1AFL	0,0696	15	Piece	EUR

Screenshots: Multiple Search and one-click generation of a costdata® calculation compatible import file from the complete EBOM.

Efficiency: Manual data entry completely eliminated – error rate reduced to zero.

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