

Add Manex PN to BOM

This module will help you populate Manex P/N from Manex BOM to Customer BOM by mapping the RefDes. It is very tedious work to find Part Numbers of a specific designator from all the Part Numbers of various RefDes from the Manex BOM. Not only that, once you find them, you also have to look for duplicates if any.

In order to lessen your work, we have brought this feature that will fetch the Manex BOM as well as Customer BOM of a specific customer and populate the Manex P/N with indicating discrepancies if any. **This will save you a lot of time, which you can utilize for other significant tasks instead.** It also highlights records of Manex BOM that has no match or the records that Customer BOM finds as duplicates, so that you can easily compare and save time analyzing the whole BOM.

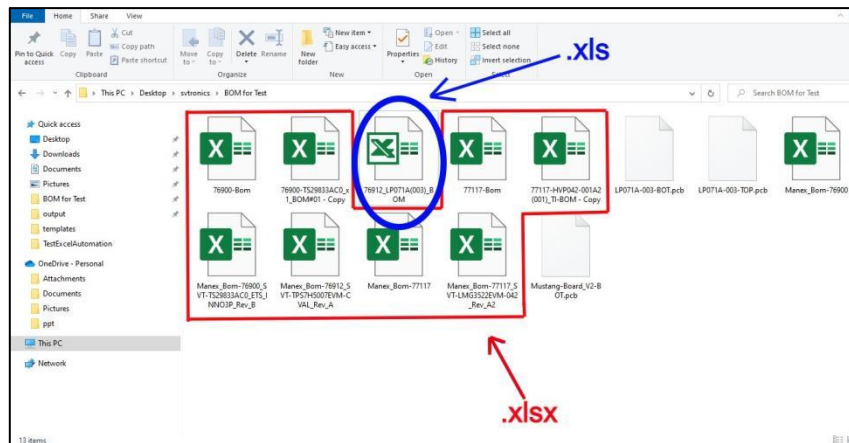
There is one more perk of using this app. You can directly use the BOM sent by the customer without the need of renaming because this feature will do that for you.

Detailed Features

- It appends the work order number in the customer BOM file name.
- It reads both excel files and maps the RefDes from both the BOMs.
- It uses delimiters to segregate all the RefDes of a record for comparison.
- It also uses separators if any to predict the undefined values of designators.
- You are only needed to provide the Manex BOM and Customer BOM excel files.
- In addition, just few details of the Customer BOM is to be filled.
- It has the mechanism to predict Manex BOM details so you need not provide those.
- Once the program is executed you can find the Manex P/N populated in the Customer BOM with few significant highlights in both excel files.
- The feature will add 2 columns at the beginning, one with the Manex P/N and other to display any discrepancies using different highlights.
- The highlight column is just for easy analysis which can be got rid of after proper scanning and validating the data.
- Highlights in Customer BOM:
 - Yellow - Manex P/N not found
 - Blue - Duplicates
 - Red Font - For quantity 0
- Highlights in Manex BOM:
 - Red - Manex P/N not utilized
 - Blue - Duplicates

Set Up

Firstly, you need to make sure that you have both Customer BOM and Manex BOM downloaded in your system. The Manex BOM will be of format .xlsx but the Customer BOM may vary - it can be .xlsx or .xls. You can easily identify format differences with the icon. But you don't have to worry, we have handled both versions correctly in our module.



Not to forget to make sure that Customer BOM is available on the first sheet of the excel workbook else just move it to the first place. **Now, you are completely ready to utilize this feature!!**

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Workflow

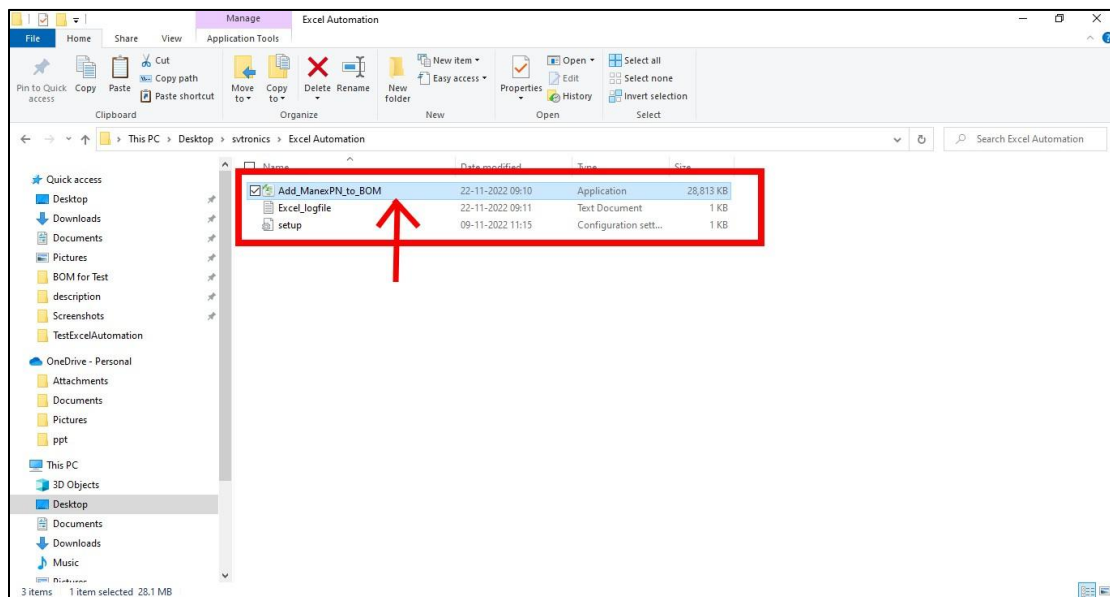
The unmodified Customer BOM looks like this.....

Fitted	Description	Designator	PartNumber	Quantity	Manufacturer	Package Reference	Value	INDIA Team Comment
Fitted	Printed Circuit Board	PCB	HVP042-001	1	Any			
Fitted	CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	C1, C11	TMK316AB7106KLHT	2	Taiyo Yuden	1206	10uF	
Fitted	0.22 uF Cap, 16V	C2, C12	DNP	2	MuRata	0402	0.22uF	
Fitted	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	C3, C13	CGA4J3X7R1E225K125AB	2	TDK	0805	2.2uF	
Fitted	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	C5, C23	GCM1555C1H220JA16D	2	MuRata	0402	22pF	
Fitted	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, 0402	C6, C14	C1005C0G1H680J050BA	2	TDK	0402	68pF	
Fitted	CAP, CERM, 1 µF, 35 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0402	C9, C26	GRT155R6YA105KE13D	2	MuRata	0402	1uF	
Fitted	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	C10, C27	GCM155R71H104KE02D	2	MuRata	0402	0.1uF	
Fitted	0.03 µF ±10% 1000V (1kV) Ceramic Capacitor C0G, NP0 1812 (4532 Metric)	C17-C21, C38	C1812C303KDGCAUTO	6	Kemet	1812	0.03uF	
Fitted	Cap Ceramic 10uF 25V X7S 10% Pad SMD 0805 +125°C Automotive T/R	C30, C41	CGA4J1X751E106K125AC	2	TDK Corporation	0805	10µF	
Fitted	CAP, CERM, 1.7 uF, 25 V, +/- 10%, X6S, AEC-Q200 Grade 1, 0805	C23, C26, C27	GRT155R6YA105KE13D	2	MuRata	0402	1.7uF	
HVP042-001A2(001)_11-BOM								

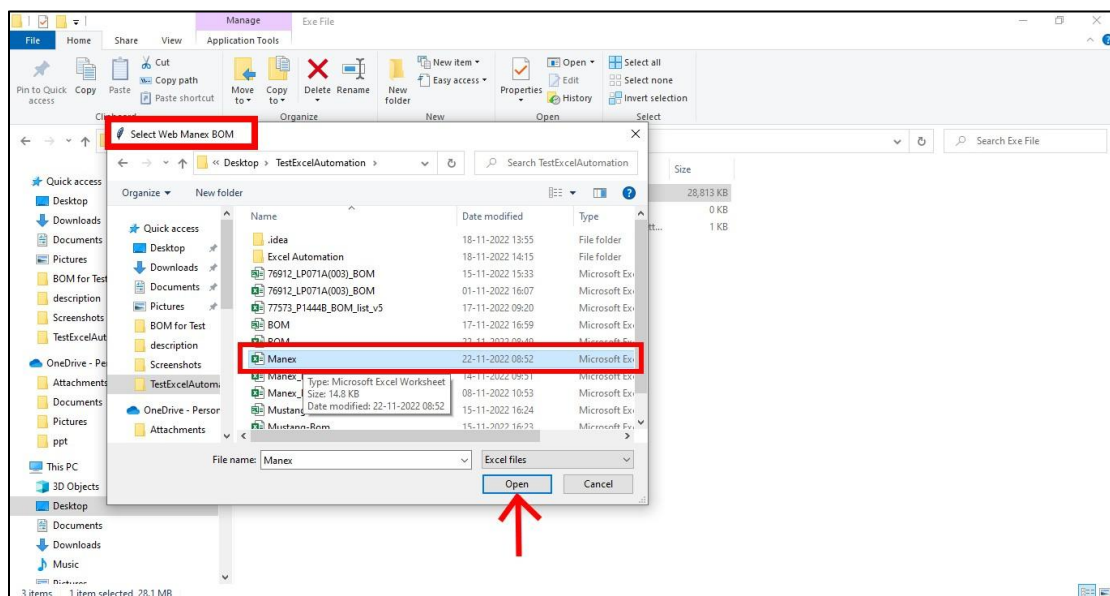
The unmodified Web Manex BOM.....

Item	PartNumber	Source	PartClass	PartType	Description	Qty	Cust Part No	Mfr	MPN	Ref Des
1	305-0005526	BUY	PCB-RAW	OTHER	HVP042 PCB REV-A2 (LMG3522EVM-042)	1			HVP042 PCB(GENR),	!PCB
2	121-0002655	BUY	CAP-SMT	1206	10uF 10% 25V X7R 1206 CAP CER	2			12063C106KAT2A(AVX), 885012208069(WURTH), C1206C106K3RACTU(KEMET),	C1, C11
4	121-0003846	BUY	CAP-SMT	0805	2.2uF 10% 25V X7R 0805 CAP CER	2			CGA4J3X7R1E225K125AB(TDK), GCM21BR71E225KA73K(MURATA),	C3, C13
5	121-0000230	BUY	CAP-SMT	0402	22pF 5% 50V C0G/NP0 0402 CAP CER	2			0402CG220J9B200(PHY), C0402CG500-2201NE(VENKEL), C0402C220J5GAC7411(KEMET),	C5, C23
6	121-ISR0002	BUY	CAP-SMT	0402	68pF, 50V, 1%, C0G	2			GRM1555C1H680F02D(MURATA),	C6, C14
7	121-0003251	BUY	CAP-SMT	0402	1uF 10% 35V X5R 0402 CAP CER	2	121-0003251		C1005X5R1V105K050BC(TDK), C1005X5R1V105K050BE(TDK),	C9, C26
8	121-0002382	BUY	CAP-SMT	0402	0.1uF 10% 50V X7R 0402 CAP CER	2			C1005X7R1H104K(TDK), C1005X7R1H104K050BB(TDK),	C10, C27

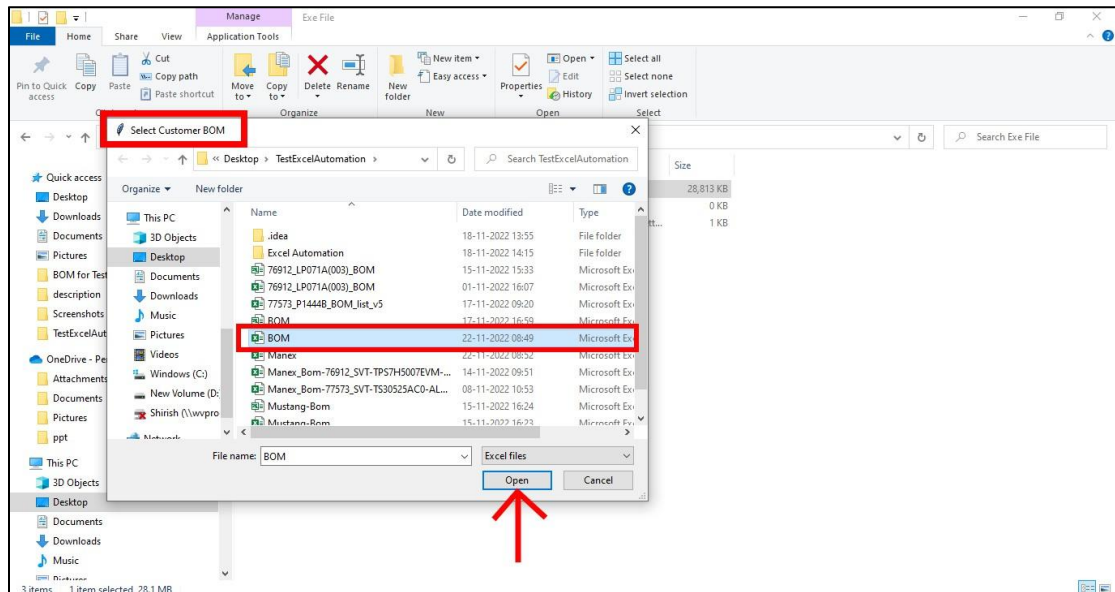
Let's begin the execution....



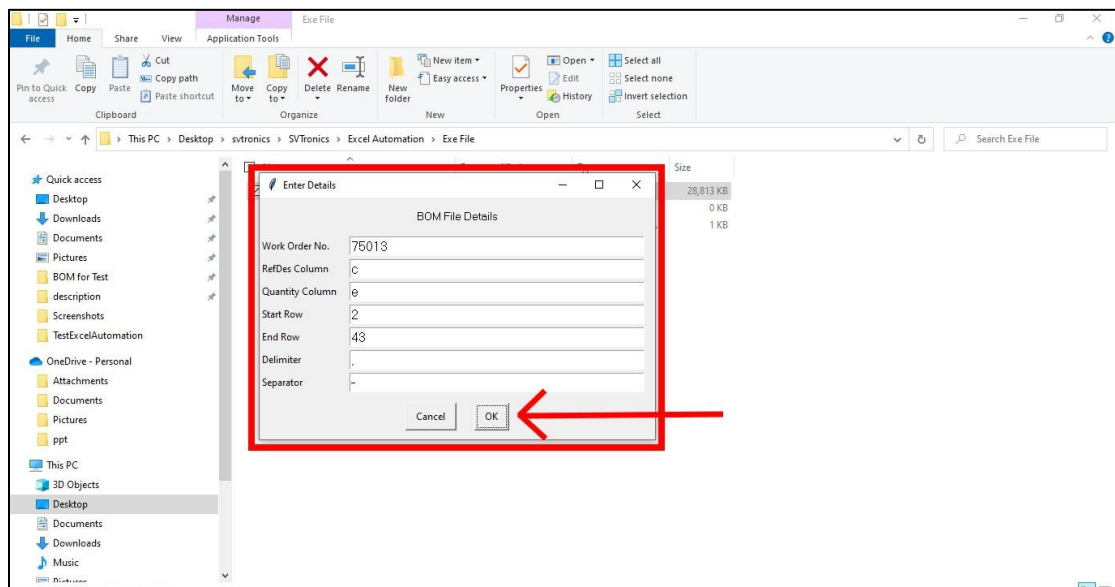
Select the Web Manex BOM.



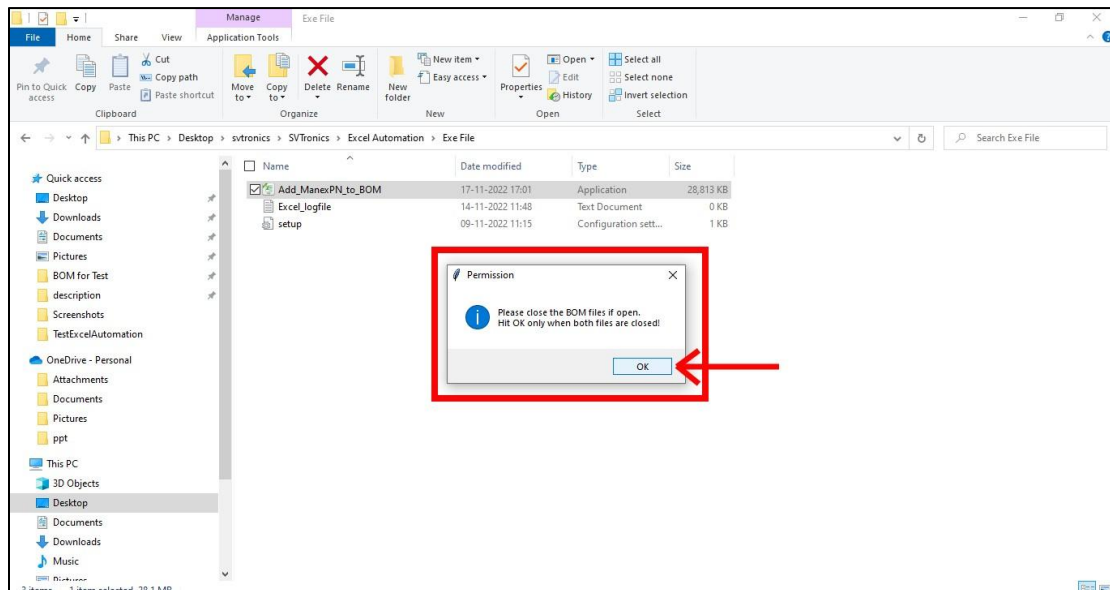
Select the Customer BOM.



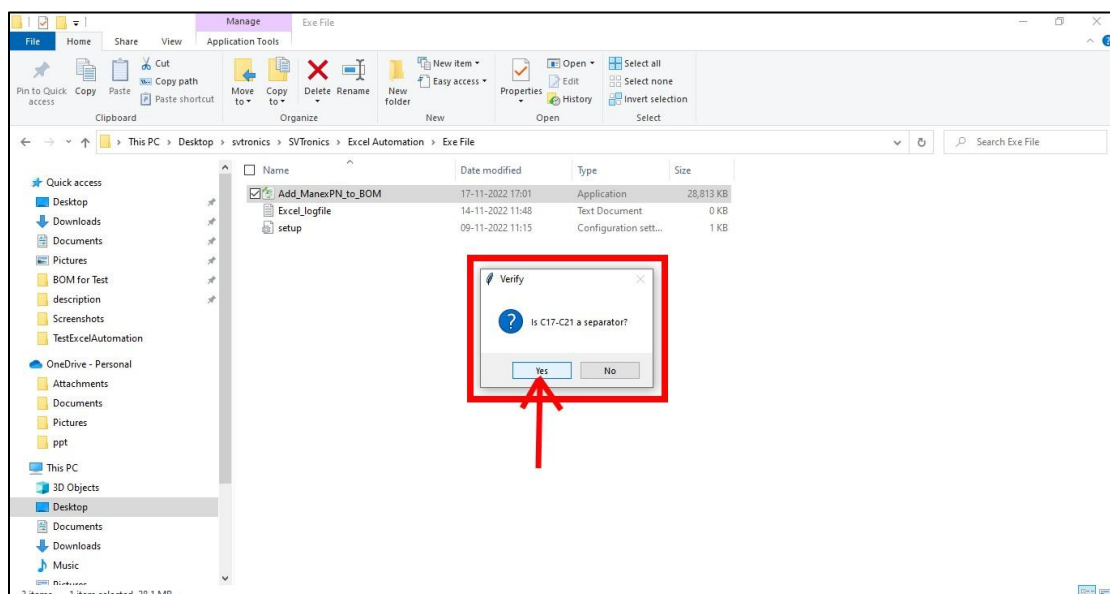
Fill in the details regarding Work Order Number and customer BOM columns. **Here, the Work Order Number is used to rename the Customer BOM.** If you have already renamed the BOM with Work Order Number, leave it blank.



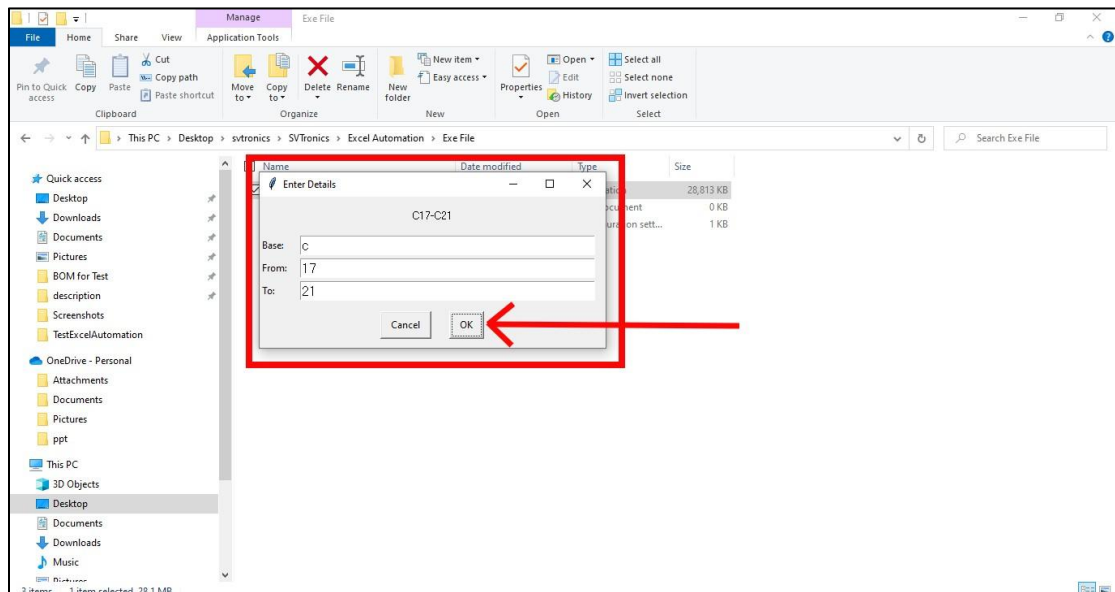
Now to make sure there is no permission denied conflict while writing on the excel files, you need to close both the files before proceeding further. **Hit OK on the dialog box only after you have the files closed.**



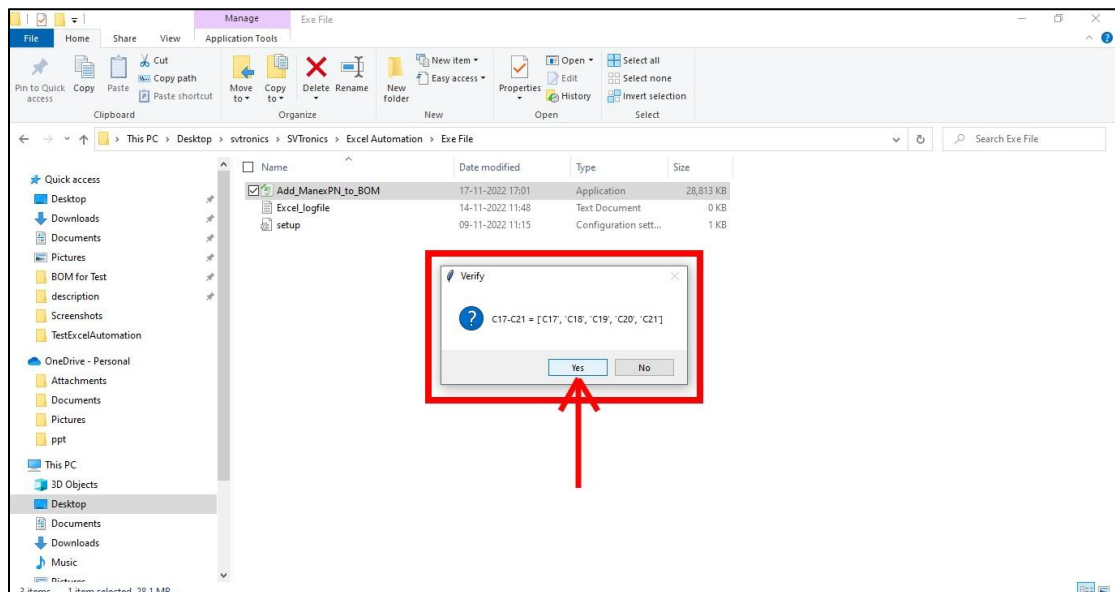
Now, if the BOM has separators, it will ask you to confirm an instance identified with the separator. **For the Manex BOM, it will automatically populate the intermediate values,** but for Customer BOM we have kept this feature to be utmost sure about the expansion of RefDes.



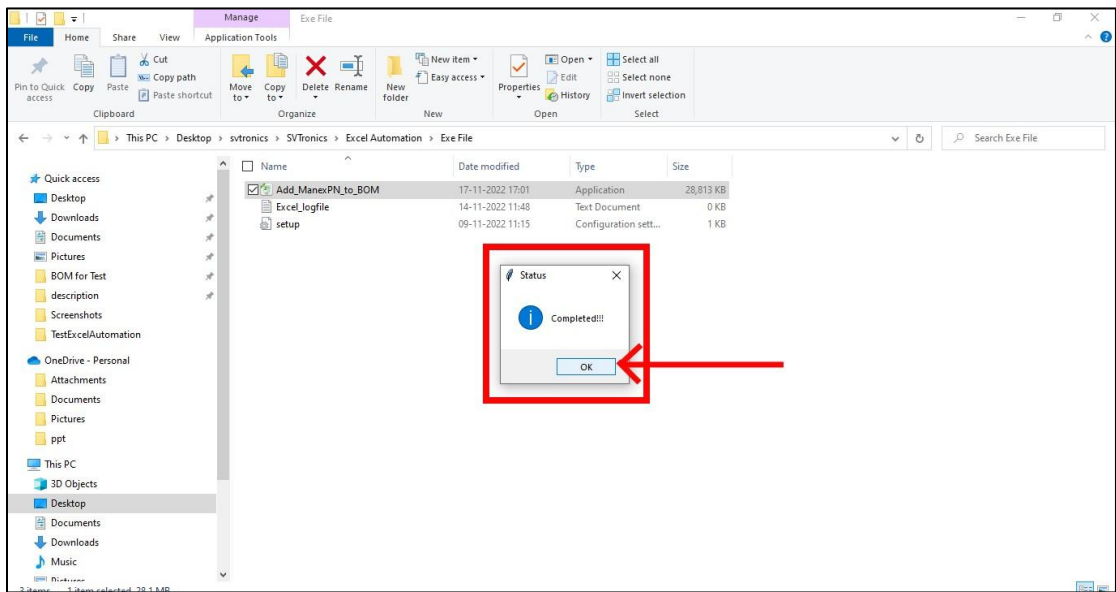
If yes, then it will ask you to specify the base and the range.



Once you complete, it will again show you the expanded values for confirmation.



That's it! The process is completed.



Let me help you with the markings on both BOMs. First of all, the Customer BOM is now renamed with the Work Order Number. Also, you will see 2 columns inserted in the starting, first for stating discrepancies and the second with the Manex P/N.

The screenshot shows an Excel spreadsheet with a BOM table. The table has columns for Part Number, Description, Designator, and Value. A red box highlights the table area, and a yellow box highlights the 'Check' column.

	A	B	C	D	E	F	G	H	I	J
			Fitted	Description	Designator	PartNumber	Quantity	Manufacturer	Package Reference	Value
1				Printed Circuit Board	PCB	HVP042-001	1	Any		
2		305-0005526	Fitted	CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	C1, C11	TMK316AB7106KLHT	2	Taiyo Yuden	1206	10µF
3		121-0002655	Fitted	0.22 uF Cap, 16V	C2, C12	DNP	2	MuRata	0402	0.22uF
4	Check	Manex PN not found	Fitted	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	C3, C13	CGA4J3X7R1E225K125AB	2	TDK	0805	2.2uF
5		121-0003846	Fitted	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	C5, C23	GCM1555C1H2201A16D	2	MuRata	0402	22pF
6		121-0000230	Fitted	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, 0402	C6, C14	C1005C0G1H680J050BA	2	TDK	0402	68pF
7		121-ISR0002	Fitted	650-V 30-mQ GaN FET with Integrated Driver, Protection, 0402	U1, U2	LMG3522R030-Q1	2	Texas Instruments	VQFN52	
8	Duplicate	221-0009285	Fitted	CAP, CERM, 1 µF, 35 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0402	C9, C26	GRT155R6Y1A105KE13D	2	MuRata	0402	1uF
9		121-0003251	Fitted	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	C10, C27	GCM155R71H104KE02D	2	MuRata	0402	0.1uF
10		121-0002382	Fitted	0.03 µF ±10% 1000V (1kV) Ceramic Capacitor C0G, NP0	C17-C21, C38	C1812C303KDGCAUTO	6	Kemet	1812	0.03uF
11		121-0005716	Fitted	Cap Ceramic 10µF 50V X7R 10% 0402	C20, C41	CGA4J3X7R1E106K125AC	2	TDK Corporation	0805	10µF

If there is no match for the RefDes of Customer BOM in Manex BOM, then it will be **highlighted to yellow**, but if it identifies more than one match then it will be **blue highlighted**. On the other hand, if the quantity in the Customer BOM is 0, then that row would be marked with **red font**. **Now, to keep track of the execution, it leaves a timestamp at the end.**

	A	B	C	D	E	F	G	H	I	J
37		221-0009547	Fitted		U3	ISO7741FQDBQQ1	1	Texas Instruments	SSOP-16	
38		221-0009137	Fitted	Automotive, robust EMC, six-channel, 4/2,	U4	ISO7762FQDBQQ1	1	Texas Instruments	SSOP16	
39		221-0009138	Fitted	Transformer Driver PMIC SOT-23-6	US, U6	SN6505BQDBVTQ1	2	Texas Instruments	SOT-23-6	
40	Check	Manex PN not found	Not Fitted	RES, 2.05, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	R2	CRCW12062R05FKEA	0	Vishay-Dale	1206	2.05
41	Check	Manex PN not found	Not Fitted	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	R3, R12	ERJ-2GE0R00X	0	Panasonic	0402	0
42	Check	Manex PN not found	Not Fitted	RES, 0, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	R10	ERJ-8GEY0R00V	0	Panasonic	1206	0
			Not Fitted	RES, 20 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	R17	ERJ-2GEJ203X	0	Panasonic	0402	20k
43	Check	Manex PN not found								
44										
45		Last modified at	2022-11-22 08:54:29.082557							

Once you analyze the discrepancies, you can get rid of the first column. **Select and Delete.**

	A	B	C	D	E	F	G	H	I	J
3		03-0000009	Fitted	Test Point, Compact, SMT	TP1	5016	1	Keystone	Testpoint_Keystone_Compact	
3		03-0000141	Fitted	Test Point, SMT	TP2	S2751-46R	1	Harwin	Test Point, SMT	
3		21-0009285	Fitted	650-V 30-mΩ GaN FET with Integrated Driver,	U1, U2	LMG3522R030-Q1	2	Texas Instruments	VQFN52	
3		21-0009547	Fitted		U3	ISO7741FQDBQQ1	1	Texas Instruments	SSOP-16	
3		21-0009547	Fitted	Automotive, robust EMC, six-channel, 4/2,	U4	ISO7762FQDBQQ1	1	Texas Instruments	SSOP16	
3		21-0009137	Fitted	Transformer Driver PMIC SOT-23-6	US, U6	SN6505BQDBVTQ1	2	Texas Instruments	SOT-23-6	
3		21-0009138	Not Fitted	RES, 2.05, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	R2	CRCW12062R05FKEA	0	Vishay-Dale	1206	2.05
4	Check	Manex PN not found	Not Fitted	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	R3, R12	ERJ-2GE0R00X	0	Panasonic	0402	0
4	Check	Manex PN not found	Not Fitted	RES, 0, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	R10	ERJ-8GEY0R00V	0	Panasonic	1206	0
4	Check	Manex PN not found	Not Fitted	RES, 20 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	R17	ERJ-2GEJ203X	0	Panasonic	0402	20k

The Manex BOM has only two kinds of markings. **Red font** represents the unused Manex P/N and the **blue fonts** represent duplicates.

	A	B	C	D	E	F	G	H	I	J	K
32		423-0000170	BUY	XFORM-TK	SMT	Transformer, 105uH,	2	423-0000170	-	750315371(WURTHE),	T1, T2
33		503-0000009	BUY	TEST PT.	ALL	PC TEST POINT COMPACT SMT	1		-	5016(KEYSTONE),	TP1
34		503-0000141	BUY	TEST PT.	ALL	Test Point, SMT	1		-	S2751-46R(HARWIN),	TP2
35		221-0009285	CONSG	IC-SMT	OTHER	650-V 30-m? GaN FET with Integrated Driv	2		-	LMG3522R030-Q1(TI),	U1, U2
36		221-0009547	CONSG	IC-SMT	OTHER	DGTL ISO 3000VRMS 4CH 16SSOP	1		-	ISO7741FQDBQQ1(TI),	U3
37		221-0009137	CONSG	IC-SMT	SSOP	High Speed, Robust EMC, Reinforced Six-C	1		-	ISO7763FDBQR(TI), ISO7762FQDBQRQ1(TI),	U2
38		221-0009138	CONSG	IC-SMT	OTHER	Transformer Driver PMIC SOT-23-6	2		-	SN6505BQDBVRQ1(TI), SN6505BQDBVTQ1(TI),	U5, U6
39		831-0000930	BUY	LABEL	ALL	CE, WEEE, Greendot Brady label (0.375"x1.1	1		-	Y4675858(BRADY),	TBD
40		891-0000124	BUY	PACKAGE	BOX	Box - White 5.75" x 4.5" x 2"	1		-	TIBX011(LEAMAN),	TBD
41		891-0000125	BUY	PACKAGE	FOAM	Foam, Anti, Top/Btm, 5.625" x 4.375" x 1.5	1		-	TIFM004(LEAMAN),	TBD
42		831-0000160	BUY	LABEL	ALL	coab label size (4x5-01)	1		-	SLLF003C(GENR), SLLF003D(GENR),	TBD
43		850-0000055	BUY	DOCS	CUST	EVM kit insert , read me legal doc	1		-	SZZC019G(GENR), SZZC019H(GENR),	TBD
44		831-0000243	BUY	DOCS	IN-HOUSE	Literature Technical Brief	1		-	SLVT174(GENR),	TBD

And you have your tedious task done just like that!!....