

TIPS & TRICKS

In questa sezione ti spiegheremo in che modo impostare la tua distinta base (BOM) così che il nostro portale possa analizzarla ed interpretarla nel modo più corretto possibile.

Ecco un esempio:

n°	Comment	Description	Quantity	Designator	Footprint	Pins	Supplier	MPN
1	PCB	Circuito Stampato	1	PCB		1	Asensio	Circuito Stampato
2	0R	Resistor Case 0805 1% 1/8W	5	R57, RHU1, RHU2, RHU3, RHU4	0805 reflow	2	Yageo	RC0805FR-0710RL
3	1K	Resistor Case 0805 1% 1/8W	19	R10, R11, R12, R27, R34, R37, R45, R63, R64, R69, R61, R62, R63, R64, R65, R66, R89, R92, R94	0805 reflow	2	Yageo	RC0805FR-071KSL
4	1K5	Resistor Case 0805 1% 1/8W	2	R72, R74	0805 reflow	2	Yageo	RC0805FR-071K5L
5	1K8	Resistor Case 0805 1% 1/8W	1	R86	0805 reflow	2	Yageo	RC0805FR-071K8L
6	1uF	Case 0803 XTR 25V	3	C13, C85, C157	0803 reflow	2	TDK	C1608XTR1H102J
7	1R0	Resistor Case 0805 1% 1/8W	6	R33, R41, R42, R43, R44, R46	0805 reflow	2	Yageo	RC0805FR-071R0L
8	1uF	Case 0805 XTR 25V +/-10%	34	C23, C24, C25, C41, C44, C54, C56, C61, C62, C63, C64, C65, C66, C72, C87, C90, C100, C103, C106, C112, C116, C124, C127, C130, C133	0805 reflow	2	TDK	C2012XTR1E105K
9	2K2	Resistor Case 0805 1% 1/8W	4	R31, R80, R103, R104	0805 reflow	2	Yageo	RC0805FR-072K2L
10	3K3	Resistor Case 0805 1% 1/8W	2	R81, R82	0805 reflow	2	Yageo	RC0805FR-073K3L
11	3K9	Resistor Case 0803 1% 1/8W	2	R15, R23	0803 reflow	2	Yageo	RC0803FR-0710RL
12	4K7	Resistor Case 0805 1% 1/8W	2	R14, R26	0805 reflow	2	Yageo	RC0805FR-074K7L
13	6K8	Resistor Case 0805 1% 1/8W	6	R19, R20, R21, R28, R29, R30	0805 reflow	2	Yageo	RC0805FR-076K8L
14	8MHz	Abracom ABM7-8.000MHZ-D-2-V-T	1	Y1	ABM7	2	Abracom	ABM7-8.000MHZ-D-2-V-T
15	10K	Resistor Case 0603 1% 1/16W	23	R16, R17, R22, R25, R32, R35, R36, R38, R39, R40, R66, R67, R68, R69, R70, R77, R78, R83, R93, R97, R98, R99, R108	0603 reflow	2	Yageo	RC0603FR-0710KL
16	10uF	Case 0603 XTR 25V	68	C96, C97, C101, C102, C105, C109, C110, C114, C118, C119, C121, C122, C123, C125, C126, C128, C129, C131, C132, C134, C138, C139	0603 reflow	2	TDK	C1608XTR1H103K
17	10R	Resistor Case 0603 1% 1/16W	1	R5	0603 reflow	2	Yageo	RC0603FR-0710RL
18	10R	Resistor Case 0805 1% 1/8W	3	R2, R3, R4	0805 reflow	2	Yageo	RC0805FR-0710RL
19	10uF	Case 0805 XSR 8.3V	24	C83, C111, C113, C136, C137, C143, C144, C145, C146, C147, C149, C153, C156, C160, C163, C164, C169, C170, C178, C181, C183, C185	0805 reflow	2	TDK	C2012XSR0J106K1 25
20	12K	Resistor Case 0805 1% 1/8W	1	R84	0805 reflow	2	Yageo	RC0805FR-0712KL
21	15uH	Colltronics 7.6x7.6mm shielded 2A DR7.4-15.0-R	1	L2	IND7.6x7.6	2	Digkey	513-1138-1-ND
22	22nF	Case 0805 XTR 50V	1	C82	0805 reflow	2	AVX	08055C223JAT2A
23	22pF	Case 0805 NPO 50V	5	C76, C78, C81, C188, C189	0805 reflow	2	KEMET	C0805C220J5GACTU
24	22R	Resistor Case 0805 1% 1/8W	1	R96	0805 reflow	2	Yageo	RC0805FR-0722RL
25	24LC64T-IOT	64Kbit, 400kHz, 2.5V, I2C, Serial EEPROM, 5-Pin SOT-23	1	U18	SOT-23-GT5_N	5	Microchip	24LC64T-IOT
26	33K	Resistor Case 0805 1% 1/8W	1	R55	0805 reflow	2	Yageo	RC0805FR-0733KL
27	39K	Resistor Case 0803 1% 1/8W	1	R7	0603 reflow	2	Yageo	RC0603FR-0739KL

Tra le righe della BOM deve essere presente un Circuito Stampato, in modo che il portale riesca ad effettuare la quotazione e poi Prime Elettronica il montaggio (come si vede nella prima riga).

- La prima colonna, n*: Indica il numero di codici, è una semplice numerazione per sapere quanto grande è la tua distinta.
- La seconda colonna, Comment: Indica il valore del codice della riga. Può essere, come nell'esempio, per le resistenze il valore o per gli integrati il codice costruttore.
- La terza colonna, Description: È la descrizione del componente della riga.
- La quarta colonna, Quantity: È la quantità per singola scheda del componente indicato nella riga.
- La quinta colonna, Designator: Qui vengono indicati i reference (riferimenti) dei componenti sulla singola scheda.
- La sesta colonna, Footprint: Indica la dimensione o il case del componente (per resistenze/condensatori SMD 0603, 0805 mentre per integrati SOT23, BGA).
- La settima colonna, Pins: Indica il numero di pin del componente singolo (per esempio SOT23-3 Pins 3, resistenza 0805 Pins 2).
- L'ottava colonna, Supplier: Indica il produttore del componente, è legato alla successiva colonna MPN (manufacture part name o più semplicemente il codice produttore). Qui ti chiediamo di indicare il nome della compagnia che produce il componente che noi andremo ad acquistare.
- La nona e ultima colonna, MPN: Come si diceva MPN è il codice produttore, questa colonna è molto importante perchè ci da la sicurezza che l'elemento che il nostro portale sta analizzando sia giusto per la tua scheda.

Attenzione: Il Portale legge i file solo in formato .xls .xlsx. Negli altri formati non riesce ad interpretare le informazioni e potrebbe non leggere la tua distinta base.

Quando il portale avrà caricato la tua BOM, ti chiederà di effettuare delle operazioni molto semplici sulle colonne e sulle righe.

Dovrai dire al portale che colonna corrisponde a cosa usando i menù a tendina, qui sotto un esempio:

Linea item	note codice articolo del	Descrizione*	Quantità per*	Designatore di riferimer	Skip	Skip	Produttore*	codice articolo del cost
A	B	C	E	F	G	H	I	
n°	Comment	Description	Designator	Footprint	Pins	Supplier	MPN	
2	1	PCB	Circuito Stampato	PCB		Azienda	Circuito Stampato	
3	2	0R	Resistor Case 0805 1...	RHU1, RHU2, RHU...	0805 reflow	Yageo	RC0805JR-070RL	
4	3	1K	Resistor Case 0805 1...	10, R11, R12, R27, ...	0805 reflow	Yageo	RC0805FR-071K5L	
5	4	1K5	Resistor Case 0805 1...	R72, R74	0805 reflow	Yageo	RC0805FR-071K5L	
6	5	1K6	Resistor Case 0805 1...	R86	0805 reflow	Yageo	RC0805FR-071K6L	
7	6	1nF	Case 0603 X7R 25V	C13, C85, C157	0603 reflow	TDK	C1608X7R1H102J	
8	7	1R0	Resistor Case 0805 1...	33, R41, R42, R43, ...	0805 reflow	Yageo	RC0805FR-071R0L	
9	8	1uF	Case 0805 X7R 25V +/-	7, C8, C20, C21, C2...	0805 reflow	TDK	C2012X7R1E105K	
10	9	2K2	Resistor Case 0805 1...	31, R80, R103, R104	0805 reflow	Yageo	RC0805FR-072K2L	
11	10	3K3	Resistor Case 0805 1...	R81, R82	0805 reflow	Yageo	RC0805FR-073K3L	
12	11	3K9	Resistor Case 0603 1...	R15, R23	0603 reflow	Yageo	RC0603FR-0710KL	
13	12	4K7	Resistor Case 0805 1...	R14, R26	0805 reflow	Yageo	RC0805FR-074K7L	
14	13	6K8	Resistor Case 0805 1...	R19, R20, R21, R28, ...	0805 reflow	Yageo	RC0805FR-076K8L	
15	14	8MHz	Abracon ABM7-8.000MH...	Y1	ABM7	Abracon	ABM7-8.000MHZ-D-2-Y...	
16	15	10K	Resistor Case 0603 1...	R16, R17, R22, R25, ...	0603 reflow	Yageo	RC0603FR-0710KL	
17	16	10nF	Case 0603 X7R 25V	C1, C5, C6, C9, C19, ...	0603 reflow	TDK	C1608X7R1H103K	
18	17	10R	Resistor Case 0603 1...	R5	0603 reflow	Yageo	RC0603FR-0710RL	
19	18	10R	Resistor Case 0805 1...	R2, R3, R4	0805 reflow	Yageo	RC0805FR-0710RL	
20	19	10uF	Case 0805 X5R 6.3V	C84, C93, C111, C113...	0805 reflow	TDK	C2012X5R0J106K1.25	
21	20	12K	Resistor Case 0805 1...	R84	0805 reflow	Yageo	RC0805FR-0712KL	

Dopo aver fatto questo passaggio il portale ti chiederà di spuntare i componenti che vuoi che siano installati (montati) e/o acquistati. Come riporta l'esempio sotto bisogna comunque indicare la riga del Circuito Stampato così che il portale riesca ad individuarlo.

Linea item	Descrizione*	Quantità per*	Designatore di riferimento	Quantità di piombo	Produttore*	codice articolo del costruttore*	Revisione	note codice articolo del costruttore	Installa	PCB	Acquistare	Specifiche	RoHS
1	Circuito Stampato	1	PCB		Produttore PCB	Circuito Stampato			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
2	Resistor Case 0805 1% 10W	5	R87, RHU1, RHU2, RHU3, RHU4		Yageo	RC0805JR-070RL			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3	Resistor Case 0805 1% 10W	19	R10, R11, R12, R27, R34, R37, ...		Yageo	RC0805FR-071K5L			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
4	Resistor Case 0805 1% 10W	2	R72, R74		Yageo	RC0805FR-071K5L			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
5	Resistor Case 0805 1% 10W	1	R86		Yageo	RC0805FR-071K6L			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
6	Case 0603 X7R 25V	3	C13, C85, C157		TDK	C1608X7R1H102J			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
7	Resistor Case 0805 1% 10W	6	R33, R41, R42, R43, R44, R48		Yageo	RC0805FR-071R0L			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
8	Case 0805 X7R 25V +/-10%	34	C7, C8, C20, C21, C22, C23, C2...		TDK	C2012X7R1E105K			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
9	Resistor Case 0805 1% 10W	4	R31, R80, R103, R104		Yageo	RC0805FR-072K2L			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
10	Resistor Case 0805 1% 10W	2	R81, R82		Yageo	RC0805FR-073K3L			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
11	Resistor Case 0603 1% 10W	2	R15, R23		Yageo	RC0603FR-0710KL			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
12	Resistor Case 0805 1% 10W	2	R14, R26		Yageo	RC0805FR-074K7L			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
13	Resistor Case 0805 1% 10W	6	R19, R20, R21, R28, R29, R30		Yageo	RC0805FR-076K8L			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
14	Abracon ABM7-8.000MHZ-D-2-Y-T	1	Y1		Abracon	ABM7-8.000MHZ-D-2-Y-T			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
15	Resistor Case 0603 1% 10W	23	R16, R17, R22, R25, R32, R35, ...		Yageo	RC0603FR-0710KL			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
16	Case 0603 X7R 25V	68	C1, C5, C6, C9, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C190, C191, 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