

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

17 DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES

General - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in **22**. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies that are not listed, describe and report them in the "Cost of all other materials . . ." at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . ." Census material code 009700 99.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

Valuation of Materials Consumed - The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

Contract Work - Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in **16**, line A5, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

Resales - Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in **16**, line A2, not in **17**. The value of these products shipped by this establishment should be reported in **22** under Census product code 999899 1000, "Resales."

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Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
	Components for electronic circuitry, excluding tubes				
1	Printed circuit boards (without inserted components)	334412 00			
2	Semiconductors, including transistors, diodes, rectifiers, and integrated circuits	334413 00			
3	Capacitors	334414 00			
4	Resistors	334415 00			
5	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	334418 01			
6	All other miscellaneous components and accessories for electronic circuitry, excluding tubes	334419 01			
7	Silicon, hyperpure	325188 35			
8	Silicon chips	331419 57			

CONTINUE WITH **17** ON PAGE 12

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17 DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued

Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company			
			Cost, including delivery cost (freight-in)			
			\$ Bil.	Mil.	Thou.	
0634		0630	0631			
9	Gold and other precious metals, all forms, including ingot, sheet, strip, solder, plating, electrodes, etc.	331419 11				
10	Resists (photosensitive resin films applied to the surface of a wafer)	326113 05				
11	Doped chemicals and other doped materials for electronic use	33 41 7				
12	Electronic computer and peripheral equipment and parts	3 110 09				
13	Electronic communication systems and equipment, including wireless, radio, television, satellite, and airborne transmitters and receivers (microwave, UHF, VHF, etc.)	334220 05				
14	Glass and glass products, excluding windows and mirrors	327200 03				
15	Plastic resins consumed in the form of granules, pellets, powders, liquids, etc., excluding sheets, rods, tubes, and other shapes	325211 05				
16	Primary metal mill shapes and forms, including castings (steel, aluminum, etc.)	331000 01				
17	Primary metal powders	331000 72				
18	Sheet metal products, excluding stampings	332000 94				
19	Other fabricated metal products, including forgings	332000 07				
20	Insulated primary metal wire and cable, including magnet wire	331000 70				
21	Fabricated plastics products, excluding gaskets	326190 11				
22	Plastics packaging film and sheet, including laminated	326112 05				
23	Polyurethane packaging foam products	326150 20				
24	Wood boxes, pallets, skids, and containers, including combination wood and paperboard	321920 04				

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17 DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued

Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company			
			Cost, including delivery cost (freight-in)			
			\$ Bil.	Mil.	Thou.	
0634		0630	0631			
25	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.) ↴	009700 99	□ □	□ □ □	□ □ □	
26	TOTAL (Should equal total reported in 16 , line A1)	771000 00	□ □	□ □ □	□ □ □	

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18-21 Not Applicable.

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22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE

General - The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of **22**. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

Valuation of Products - Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

Contract Work - Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific product lines as if they were made by you in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" for printed circuit (wiring) boards under Census code 9998992002, printed circuit assemblies, loaded boards, or modules under Census code 9998992003, for semiconductors and electronic components research, development and prototyping under Census code 9998990117, for Fabless semiconductor vending under Census code 9998999007, and all other contract receipts under Census code 9998992001.

Resales - Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY, NOT SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census code 999899 1000, "Resale."

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Line No.	Products and services	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
1	Electron tubes				
	Power and special-purpose, excluding forward wave tubes . . .	334411 0101			
2	Forward wave transmitting and industrial, excluding X-rays . . .	334411 0102			
3	All other transmitting, industrial, and special-purpose, excluding X-ray, including light-sensing, light-emitting devices, and miscellaneous special-purpose tubes	334411 0103			
	Printed circuit boards				
4	Glass	334412 0105			
5	Flex	334412 0120			
6	Other printed circuit boards	334412 0139			
7	Contract receipts for manufacturing printed circuit (wiring) boards for others on their materials	999899 2002			
	Printed board assemblies				
8	Computer and peripheral	334418 B101			
9	Communications	334418 B102			
10	Industrial process control	334418 B103			

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22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
11	Printed board assemblies - Continued Instrumentation, excluding industrial process	334418 B104			
12	Search and detection	334418 B105			
13	Consumer electronics	334418 B106			
14	Contract receipts for manufacturing printed circuit assemblies, loaded boards, or modules for others on their materials	999899 2003			
15	Semiconductors and related devices Integrated circuit packages Microprocessors	334413 1201			
16	Memory	334413 1501			
17	Other integrated circuit packages	334413 1901			
18	Transistors	334413 4100			
19	Diodes and rectifiers	334413 7100			
20	Solar cells	334413 A101			
21	Photovoltaic modules	334413 A102			
22	Light-emitting diodes (LEDs)	334413 A103			
23	Other light sensitive and light-emitting devices	334413 A104			
24	Thyristors (SCRs, triacs, PNP diodes)	334413 A105			
25	Semiconductor parts, chips and wafers	334413 A106			
26	Receipts for semiconductors and electronic components research, development and prototyping	999899 9011			
27	Fabless semiconductor vending	999899 9007			

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22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services	Census product code	Products shipped and other receipts			
			Value, f.o.b. plant			
			\$ Bil.	Mil.	Thou.	
0734		0730	0731			
28	Capacitors for electronic circuitry	334414 0100				
29	Resistors for electronic circuitry	334415 0100				
	Connectors for electronic circuitry					
30	Coaxial (RF)	334417 0101				
31	Cylindrical	334417 0102				
32	Rack and panel (rectangular)	334417 0103				
33	Printed circuit	334417 0104				
34	Other connectors	334417 0105				
35	Parts for electronic connectors (connectors shipped but still requiring further manufacture)	334417 0106				
36	External modems, consumer	334418 4100				
37	Electronic coils, transformers, and other inductors	334416 0100				
	Other electronic components					
38	Crystals, filters, piezoelectric, and other related electronic devices, excluding microwave filters	334419 1100				
	Transducers					
39	Electroacoustic (sonar, ultrasonic, vibration, etc.)	334419 4101				
40	Accelerometers	334419 4102				
41	Pressure	334419 4103				
42	Strain gauges and other mechanical	334419 4104				
43	Other transducers	334419 4105				
44	Switches, mechanical, for electronic circuitry	334419 7100				

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22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
	Other electronic components - Continued				
	Microwave components and devices				
45	Ferrite, including yttrium garnets	334419 A101			
46	Attenuators (dummy loads, high- and low-power terminations, etc.)	334419 A102			
47	Reactive	334419 A103			
48	Switches, coaxial and waveguide	334419 A104			
49	Other microwave components	334419 A105			
50	Subassemblies, including parametric amplifiers and other solid-state assemblies	334419 A106			
51	Oscillators, excluding instrumentation and crystal types	334419 E101			
	Static power supply converters for electronic applications				
52	Regulated	334419 E102			
53	Other static power supply converters, including unregulated, variable frequency, AC, DC, converters and inverters, vibrator, etc.	334419 E103			
54	Electronic cable harnesses and cable assemblies	334419 E104			
55	Magnetic cores	334419 E105			
	Current-carrying switches for electrical circuitry				
56	General-use flush-mounted	335931 5101			
57	Special purpose	335931 5102			
58	Other current-carrying switches, including vehicular	335931 5YWV			

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CONTINUE WITH **22** ON PAGE 18

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services	Census product code	Products shipped and other receipts			
			Value, f.o.b. plant			
			\$ Bil.	Mil.	Thou.	
0734		0730	0731			
59	Electronic wire and cable, made of nonferrous metals (purchased wire)					
	Flexible coaxial cable, armored or unarmored	335929 A101				
60	Hookup wire (single conductor, shielded and nonshielded) . . .	335929 A102				
61	Multiconductor electronic wire and cable (shielded and nonshielded)	335929 A103				
	All other products made in this establishment. (Specify and report each product with sales value of \$5,000 or more that cannot be assigned to one of the pre-listed products and services. For all remaining products, write "Other" and report a single total value.)					
62		18				
63		26				
64		34				
65		42				
66		59				
67		67				
	All other receipts for work done for others on their materials (Specify kind) ↴					
68		999899 2001				
69	Resales - Sales of products bought and sold without further manufacture, processing, or assembly (The cost of such items should be reported in 16 , line A2.)	999899 1000				
70	Receipts for other research, development and prototyping	999899 9013				
71	Receipts for the ownership of intellectual property	999899 9008				
72	Other miscellaneous receipts, including receipts for repair work, etc.	999899 9005				
73	TOTAL (Should equal total reported in 5)	770000 0000				

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23-25 Not Applicable.

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26 SPECIAL INQUIRIES

A. PURCHASE OF CONTRACT MANUFACTURING

1. Did this establishment **purchase** contract manufacturing services from other companies or foreign plants of your company in 2012?

Include:

- Products for which the manufacturing (i.e., transforming or otherwise processing materials or components based on specifications provided by your company) was outsourced to other companies.
- Products for which the manufacturing was performed by your company's foreign plants.

Exclude:

- Services for packaging and assembling.
- Purchases of merchandise for resale (sale of products bought and sold without further processing or transformation).

1011 Yes - Go to line 2

1012 No - Go to **B**

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2. Report the costs incurred by this establishment for contract manufacturing purchased in 2012 1013

2012		
\$ Bil.	Mil.	Thou.

3. Report the value of sales, shipments, receipts, or revenue generated in 2012 from products whose purchases were reported as contract manufacturing costs in line 2 1015

2012		
\$ Bil.	Mil.	Thou.

B. RECEIPTS FROM CONTRACT MANUFACTURING

1. Did this establishment **provide** contract manufacturing services to others in 2012 (*regardless of materials ownership*)?

Include:

- Products manufactured at this location (i.e., transforming or otherwise processing materials or components based on specifications provided by the contracting company).
- Products manufactured and transferred to other plants of your company.
- Products manufactured and exported.

Exclude:

- Services for packaging and assembling.
- Sales of products purchased and sold without further processing or transformation.

1017 Yes - Go to line 2

1018 No - Go to **30**

2. Report the value of sales, shipments, receipts, or revenue generated in 2012 from contract manufacturing performed at this location for others (*regardless of materials ownership and based on specifications provided by the contracting company*) 1019

2012		
\$ Bil.	Mil.	Thou.

Please describe the product(s) being manufactured for others at this establishment. ↴

1020

27-29 Not Applicable.

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REMARKS (Please use this space for any explanations that may be essential in understanding your reported data.)

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30 CERTIFICATION - This report is substantially accurate and was prepared in accordance with the instructions.

Is the time period covered by this report a calendar year?

Yes

No - Enter time period covered →

FROM	Month	Year	TO	Month	Year
	<input type="text"/>	<input type="text"/>		<input type="text"/>	<input type="text"/>

Name of person to contact regarding this report

Title

Area code	Number	Extension
<input type="text"/>	<input type="text"/>	<input type="text"/>

Fax	Area code	Number
<input type="text"/>	<input type="text"/>	<input type="text"/>

E-mail address

Date completed	Month	Day	Year
	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Thank you for completing your 2012 ECONOMIC CENSUS form.
PLEASE PHOTOCOPY THIS FORM FOR YOUR RECORDS AND RETURN THE ORIGINAL.**

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