

AMERICAN TECHNICAL CERAMICS

# DESIGN KITS ------

**CAPACITORS • RESISTORS • INDUCTORS** 



### **Table of Contents**

Corporate Profile	. 1
ATC Multilayer Capacitor Design Kits	. 2-5
ATC Multilayer Capacitor Lab Kits	.6
ATC MLC Tuning Stick Kits	.7
ATC 400 Z, 400 L, and 400 S Precision Tolerance NPO RF Microwave Capacitor Design Kits	.8
ATC Single Layer Capacitor Design Kits	.9
ATC Resistive Products Design Kits	. 10
ATC Inductor Design Kits	.11
ATC AT Series 0603 RF / Microwave Thin Film Attenuator Design Kits	12

### **Corporate Profile**

ATC designs, develops, manufactures and markets Multilayer Capacitors, Single Layer Capacitors, Resistive Products, Inductors and Custom Thin Film Products for RF, microwave and millimeter-wave applications. Our products are primarily focused on the wireless communications infrastructure, fiber optic, medical

electronics, semiconductor manufacturing equipment, defense, aerospace, and satellite communications markets. For over fifty years, ATC's family of superior component and custom integrated packaging solutions has been represented by **THE ENGINEERS' CHOICETM** brand.

Customer interface is administered by our own personnel and independent sales representatives. American Technical Ceramics is headquartered in Hunting-

Ceramics is headquartered in Huntington Station, New York and has an Advanced Technology Center in Jacksonville,

Florida. This is the center of excellence for our traditional product lines and the development and manufacturing facilities for Thin Film and Resistive Products.

American Technical Ceramics' Sales and Customer Service Center, serving Europe, Africa and the Middle East, is located in the Czech Republic. ATC has Regional Sales Offices in Surrey, England and Hallbergmoos, Germany. The Company's whollyowned subsidiary offering Sales and Technical Support for Asia is located in Shenzhen, P.R. China.

American Technical Ceramics is a wholly-owned subsidiary of AVX Corp. The common stock of AVX is listed on the New York Stock Exchange (symbol "AVX").

#### **RLC Products**

- Multilayer Ceramic Capacitors
- Capacitor Assemblies for Power Applications
- Single Layer Ceramic Capacitors
- Resistor Products
- Inductor Products

### **Process and Packaging**

 Thin Film Custom Products: metalization and patterned substrates for a broad range of hybrid circuit requirements

### **Markets Served**

- Wireless Communications Infrastructure
- Semiconductor Manufacturing Equipment
- Medical Diagnostic Equipment
- Sattelite Systems
- Public Safety Radio
- Avionic Systems
- Military and Aerospace
- Commerical Broadcast Transmitters
- Fiber Optic Communications
- Automotive Electronics

#### **Facilities**

 Huntington Station, New York – Sales, Applications Support, Manufacturing and Distribution Center

▲ ATC's Jacksonville Facility occupies approximately 100,000 sq. ft.

ATC's New York Facility occupies

approximately 90,000 sq. ft.

 Jacksonville, Florida – Advanced Technology Center, Manufacturing Facility

### Download complete pdf data sheets at

### www.atceramics.com

ATC's website includes a complete listing of technical articles in pdf format, as well as new product updates and design support software. As an added convenience, ATC Multilayer Capacitor Kits and Inductor Design Kits may be purchased online.



NOTE: Contact ATC's Applications Engineers for further technical information at (+1-631) 622-4700.

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## → ATC RLC DESIGN KITS →



**ATC Multilayer Capacitor Design Kits:** Each Kit contains a selection of popular chip capacitor values for circuit prototyping.

Kit #	RoHS Compliant	Item #	Description	Cap. Value Range (pF)	Cap. Values (pF) Tol.	Price	
Kit 1		DK0001	100A Porcelain Superchip <sup>®</sup> 16 different values,	0.1 to 2.0	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.5 ±0.1	\$120.00	
Kit 1T	RoHS Compliant	DK0001T	15 pcs. min. per value	0.1 to 2.0	1.6, 1.8, 2.0 ±0.25	\$120.00	
Kit 2		DK0002	100A Porcelain Superchip®	40.40	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3 ±0.1	4400.00	
Kit 2T	RoHS Compliant	DK0002T	16 different values, 15 pcs. min. per value	1.0 to 10	3.9, 4.7, 5.6, 6.8, 8.2	\$120.00	
Kit 3		DK0003	100A Porcelain Superchip®	10 + 100	10, 12, 15, 18, 20, 22, 24, 27, 30,	¢120.00	
Kit 3T	RoHS Compliant	DK0003T	16 different values, 15 pcs. min. per value	10 to 100	33, 39, 47, 56, 68, 82, 100 ±5%	\$120.00	
Kit 4		DK0004	700A Porcelain and Ceramic	0.1 to 2.0	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.5 ±0.1	\$120.00 5	
Kit 4T	RoHS Compliant	DK0004T	16 different values, 15 pcs. min. per value	0.1 to 2.0	1.6, 1.8, 2.0 ±0.25		
Kit 5		DK0005	700A Porcelain and Ceramic	40.40	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3 ±0.1	¢120.00	
Kit 5T	RoHS Compliant	DK0005T	16 different values, 15 pcs. min. per value	1.0 to 10	3.9, 4.7, 5.6, 6.8, 8.2	\$120.00	
Kit 6		DK0006	700A Porcelain and Ceramic	10 + 100	10, 12, 15, 18, 20, 22, 24, 27, 30,	¢120.00	
Kit 6T	RoHS Compliant	DK0006T	16 different values, 15 pcs. min. per value	10 to 100	33, 39, 47, 56, 68, 82, 100 ±5%	\$120.00	
Kit 7		DK0007	700A Porcelain and Ceramic	100 to 1000	100, 120, 150, 180, 200, 220, 240, 270, 300, 330, 390, 470 ±5%	¢120.00	
Kit 7T	RoHS Compliant	DK0007T	16 different values, 15 pcs. min. per value	100 to 1000	560, 680, 820, 1000 ±10	\$120.00	
Kit 8		DK0008	100B Porcelain Superchip®	10: 10	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3 ±0.1		
Kit 8T	RoHS Compliant	DK0008T	16 different values, 15 pcs. min. per value	1.0 to 10	3.9, 4.7, 5.6, 6.8, 8.2	\$150.00	

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ATC Multilayer Capacitor Design Kits: Each Kit contains a selection of popular chip capacitor values for circuit prototyping.

RoHS compliant Products

Kit #	RoHS Compliant	Item #	Description	Cap. Value Range (pF)	Cap. Values (pF) Tol.	Price
Kit 9		DK0009	100B Porcelain Superchip <sup>®</sup> 16 different values,	10 to 100	10, 12, 15, 18, 20, 22, 24, 27, 30,	\$150.00
Kit 9T	RoHS Compliant	DK0009T	15 pcs. min. per value	10 to 100	33, 39, 47, 56, 68, 82, 100 ±5%	\$150.00
Kit 10		DK0010	100B Porcelain Superchip®	100 to 1000	100, 120, 150, 180, 200, 220, 240, 270, 300, 330, 390, 470 ±5%	\$150.00
Kit 10T	RoHS Compliant	DK0010T	16 different values, 15 pcs. min. per value	100 to 1000	560, 680, 820, 1000 ±10%	\$150.00
Kit 11		DK0011	700B Porcelain and Ceramic 16 different values,	1.0 to 10	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3 ±0.1 3.9, 4.7, 5.6, 6.8, 8.2 ±0.25	\$150.00
Kit 11T	RoHS Compliant	DK0011T	15 pcs. min. per value	1.0 to 10	10±5%	\$150.00
Kit 12		DK0012	700B Porcelain and Ceramic 16 different values,	10 to 100	10, 12, 15, 18, 20, 22, 24, 27, 30,	\$150.00
Kit 12T	RoHS Compliant	DK0012T	15 pcs. min. per value	10 to 100	33, 39, 47, 56, 68, 82, 100 ±5%	\$130.00
Kit 13		DK0013	700B Porcelain and Ceramic 16 different values,	100 to 1000	100, 120, 150, 180, 200, 220, 240, 270, 300, 330, 390, 470 ±5%	\$150.00
Kit 13T	RoHS Compliant	DK0013T	15 pcs. min. per value	100 to 1000	560, 680, 820, 1000 ±10%	\$150.00
Kit 14		DK0014	700B Porcelain and Ceramic 11 different values,	1000 to 5100	1000, 1200, 1500, 1800, 2200, 2700,	\$150.00
Kit 14T	RoHS Compliant	DK0014T	15 pcs. min. per value	1000 10 5100	3000, 3300, 3900, 4700, 5100 ±10%	J130.00
Kit 15		DK0015	500S BMC Microwave Millimeter-wave Surface Mount 16 different values, 15 pcs. min. per value	0.1 to 2.0	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.5	\$120.00
Kit 16	RoHS Compliant	DK0016	500S BMC Microwave Millimeter-wave Surface Mount 16 different values,	1.0 to 10	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3 ±0.1  3.9, 4.7, 5.6, 6.8, 8.2 ±0.25	\$120.00

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## → ATC RLC DESIGN KITS →



**ATC Multilayer Capacitor Design Kits:** Each Kit contains a selection of popular chip capacitor values for circuit prototyping.

RoHS compliant Products

Kit #	RoHS Compliant	ltem #	Description	Cap. Value Range (pF)	Cap. Values (pF) Tol.	Price
Kit 80T	ROHS Compliant	DK0080T	800A NPO Ceramic High RF Power MLCs 16 different values, 15 pcs. min. per value	0.1 to 2.0	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.5	\$120.00
Kit 81T	RoHS Compilant	DK0081T	800A NPO Ceramic High RF Power MLCs 16 different values, 15 pcs. min. per value	1.0 to 10	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3 ±0.1 3.9, 4.7, 5.6, 6.8, 8.2	\$120.00
Kit 82T	RoHS Compliant	DK0082T	800A NPO Ceramic High RF Power MLCs 16 different values, 15 pcs. min. per value	10 to 100	10, 12, 15, 18, 20, 22, 24, 27, 30, 33, 39, 47, 56, 68, 82, 100 ±5%	\$120.00
Kit 83T	ROHS Compliant	DK0083T	800B NPO Ceramic High RF Power MLCs 16 different values, 15 pcs. min. per value	1.0 to 10	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3 ±0.1 3.9, 4.7, 5.6, 6.8, 8.2	\$150.00
Kit 84T	ROHS Compliant	DK0084T	800B NPO Ceramic High RF Power MLCs 16 different values, 15 pcs. min. per value	10 to 100	10, 12, 15, 18, 20, 22, 24, 27, 30, 33, 39, 47, 56, 68, 82, 100	\$150.00
Kit 85T	ROHS Compliant	DK0085T	800B NPO Ceramic High RF Power MLCs 16 different values, 15 pcs. min. per value	100 to 1000	100, 120, 150, 180, 200, 220, 240, 270, 300, 330, 390, 470	\$150.00
Kit 86T	RoHS Compilant	DK0086T	800R NPO Ceramic Ultra-Low ESR MLCs 16 different values, 15 pcs. min. per value	1.0 to 10	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3 ±0.1 3.9, 4.7, 5.6, 6.8, 8.2	\$250.00
Kit 87T	RoHS Compliant	DK0087T	800R NPO Ceramic Ultra-Low ESR MLCs 16 different values, 15 pcs. min. per value	10 to 100	10, 12, 15, 18, 20, 22, 24, 27, 30, 33, 39, 47, 56, 68, 82, 100 ±5%	\$250.00

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ATC Multilayer Capacitor Design Kits: Each Kit contains a selection of popular chip capacitor values for circuit prototyping.

Kit#	RoHS Compliant	Item #	Description	Cap. Value Range (pF)	Cap. Values (pF) Tol	Price
Kit 25T	RoHS Compilant	DK0025T	600S Series Ultra-low ESR High Q Microwave Capacitors 16 different values, 15 pcs. min. per value	0.1 to 2.0	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.5	\$90.00
Kit 26T	RoHS	DK0026T	600S Series Ultra-low ESR High Q Microwave Capacitors 16 different values, 15 pcs. min. per value	1.0 to 10	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3 ±0.1 3.9, 4.7, 5.6, 6.8, 8.2	\$90.00
Kit 27T	RoHS Compilant	DK0027T	600S Series Ultra-low ESR High Q Microwave Capacitors 16 different values, 15 pcs. min. per value	10 to 100	10, 12, 15, 18, 20, 22, 24, 27, 30, 33, 39, 47, 56, 68, 82, 100 ±5%	\$90.00
Kit 32T	RoHS Compilant	DK0032T	600F Series Ultra-low ESR High Q Microwave Capacitors 16 different values, 15 pcs. min. per value	0.1 to 2.0	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.5	\$90.00
Kit 33T	RoHS	DK0033T	600F Series Ultra-low ESR High Q Microwave Capacitors 16 different values, 15 pcs. min. per value	1.0 to 10	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3 ±0.1 3.9, 4.7, 5.6, 6.8, 8.2	\$90.00
Kit 34T	RoHS	DK0034T	600F Series Ultra-low ESR High Q Microwave Capacitors 16 different values, 15 pcs. min. per value	10 to 100	10, 12, 15, 18, 20, 22, 24, 27, 30, 33, 39, 47, 56, 68, 82, 100 ±5%	\$90.00
Kit 35T	RoHS Compilant	DK0035T	600F Series Ultra-low ESR High Q Microwave Capacitors 7 different values, 15 pcs. min. per value	100 to 240	100, 120, 150, 180, 200, 220, 240 ±5%	\$50.00
(it 36T	RoHS Compliant	DK0036T	600L Series Ultra-low ESR High Q Microwave Capacitors 16 different values, 15 pcs. min. per value	0.1 to 2.0	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.5	\$90.00
Kit 37T	RoHS Compilant	DK0037T	600L Series Ultra-low ESR High Q Microwave Capacitors 16 different values, 15 pcs. min. per value	1.0 to 10	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3 ±0.1 3.9, 4.7, 5.6, 6.8, 8.2	5 \$90.00
Kit 38T	RoHS Compliant	DK0038T	600L Series Ultra-low ESR High Q Microwave Capacitors 8 different values, 15 pcs. min. per value	10 to 27	10, 12, 15, 18, 20, 22, 24, 27 ±5%	\$50.00

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## → HATC RLC DESIGN KITS →

**ATC Multilayer Capacitor Lab Kits:** The comprehensive bench-top Lab Kits below provide sufficient inventory for almost any lab application. Custom Kits are also available based upon specific preferences. Contact ATC at +1-631-622-4700 for further information.

RoHS = RoHS Compliant Products

Kit #	RoHS Compliant	Item #	Description	Cap. Value Range (pF)	Tol.	Price
Lab Kit 1		LK0001	100 A/ 700 A Kit (See Previous Kit Listings) Kit 1, Kit 2, Kit 3, Kit 7, Kit TS1	_	_	\$515.00
Lab Kit 1T	RoHS Compliant	LK0001T	100 A/ 700 A Kit (See Previous Kit Listings) Kit 1T, Kit 2T, Kit 3T, Kit 7T, Kit TS1T	_		\$515.00
Lab Kit 2		LK0002	100 B Kit (See Previous Kit Listings) Kit 8, Kit 9, Kit 10, Kit TS2, Kit TS3	_	_	\$495.00
Lab Kit 2T	RoHS Compliant	LK0002T	100 B Kit (See Previous Kit Listings) Kit 8T, Kit 9T, Kit 10T, Kit TS2, Kit TS3	_		\$495.00
Lab Kit 3		LK0003	700 A Kit (See Previous Kit Listings) Kit 4, Kit 5, Kit 6, Kit 7, Kit TS1	_	_	\$515.00
Lab Kit 3T	RoHS Compliant	LK0003T	<b>700 A Kit</b> (See Previous Kit Listings) Kit 4T, Kit 5T, Kit 6T, Kit 7T, Kit TS1T	_	_	\$515.00
Lab Kit 4		LK0004	<b>700 B Kit</b> (See Previous Kit Listings) Kit 11, Kit 12, Kit 13, Kit 14, Kit TS2	_	_	\$585.00
Lab Kit 4T	RoHS Compliant	LK0004T	<b>700 B Kit</b> (See Previous Kit Listings) Kit 11T, Kit 12T, Kit 13T, Kit 14T, Kit TS2	_	_	\$585.00



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ATC MLC Tuning Stick Kits: ATC Tuning Sticks® allow you to easily select the right capacitance value for your circuit without soldering capacitors. A Tuning Stick® consists of an ATC 100 Series A or B case and 600 Series S or F case capacitor permanently attached to a non-conductive holder. The Stick material has been selected so that its effect on the capacitance value and Q is minimal. Tuning Sticks® are available off the shelf through QUIK-PICK<sup>TM</sup> 48-Hour Shipment<sup>TM</sup>.

ROHS

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Kit#	RoHS Compliant	Item #	Description	Cap. Value Range (pF)	Cap. Values (pF) Tol.	Price
Kit TS1		TS0001	100A Multilayer Capacitor Tuning Sticks	0.1 to 100	0.1±0.1 0.5, 1.0, 1.2, 1.5, 1.8, 2.2, 2.7, 3.3, 3.9, 4.7, 5.6±0.25 6.8, 8.2, 10, 12, 15, 18, 20, 27, 33, 39, 47±5%	\$90.00
Kit TS1T	RoHS Compliant	TS0001T	27 different values		56, 68, 82	
Kit TS2		TS0002	100B Multilayer Capacitor Tuning Sticks 22 different values	0.1 to 10	0.1, 0.2, 0.3, 0.4, 0.5	\$50.00
Kit TS3		TS0003	100B Multilayer Capacitor Tuning Sticks 25 different values	10 to 1000	10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82, 100, 120 ±5% 150, 180, 220, 270, 330, 390, 470, 560, 680, 820, 1000 ±10%	\$50.00
Kit TS4T	RoHS Compliant	TS0004T	600S Series Ultra-Low ESR, High Q, NPO Tuning Sticks 16 different values	0.1 to 2.0	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.5	\$50.00
Kit TS5T	RoHS Compliant	TS0005T	600S Series Ultra-Low ESR, High Q, NPO MLC Tuning Sticks 16 different values	0.1 to 10	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3	\$50.00
Kit TS6T	RoHS Compliant	TS0006T	600S Series Ultra-Low ESR, High Q, NPO MLC Tuning Sticks 16 different values	0.1 to 2.0	10, 12, 15, 18, 20, 22, 24, 27, 30, 33, 39, 47, 56, 68, 82, 100 ±5%	\$50.00
Kit TS7T	RoHS Compliant	TS0007T	600F Series Ultra-Low ESR, High Q, NPO MLC Tuning Sticks 16 different values	10 to 100	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.5	\$50.00
Kit TS8T	RoHS Compliant	TS0008T	600F Series Ultra-Low ESR, High Q, NPO MLC Tuning Sticks 16 different values	1.0 to 10	1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.4, 2.7, 3.0, 3.3	\$50.00
Kit TS9T	RoHS Compliant	TS0009T	600F Series Ultra-Low ESR, High Q, NPO MLC Tuning Sticks 22 different values	10 to 240	10, 12, 15, 18, 20, 22, 24, 27, 30, 33, 39, 47, 56, 68, 82, 100, 120, 150, 180, 200, 220, 240 ±5%	\$75.00



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# HE ATC RLC DESIGN KITS HE

## ATC 400 Z, 400 L, and 400 S Series Precision Tolerance NPO RF Microwave Capacitor Design Kits: Each Kit contains a selection of popular chip capacitor values for circuit prototyping.



Kit #	RoHS Compliant	Item #	Description	Cap. Value Range (pF)	Cap. Values (pF) Tol.	Price
Kit 70T	RoHS Compliant	DK0070T	400Z Series Precision Tolerance NPO RF Microwave Capacitors 16 different values, 20 pcs. min. per value	0.1 to 1.8	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0 . ±.02 1.1, 1.2, 1.3, 1.4, 1.5, 1.8 ±.05	\$150.00
Kit 71T	RoHS Compliant	DK0071T	400Z Series Precision Tolerance NPO RF Microwave Capacitors 15 different values, 20 pcs. min. per value	1.0 to 2.5	1.0, 1.1, 1.2, 1.3 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0	\$150.00
Kit 72T	RoHS Compliant	DK0072T	400Z Series Precision Tolerance NPO RF Microwave Capacitors 16 different values, 20 pcs. min. per value	2.0 to 12	2.0, 2.1, 2.2, 2.4, 2.7, 3.0, 3.3, 3.6, 3.9, 4.7, 5.6, 6.8, 7.5, 8.2	\$150.00
Kit 73T	RoHS Compliant	DK0073T	400L Series Precision Tolerance NPO RF Microwave Capacitors 15 different values, 20 pcs. min. per value	.10 to 1.0	.10, .15, .20, .25, .30, .35, .40, .45, .50, .60, .70, .75, .80, .90, 1.0 ±.01	\$150.00
Kit 74T	RoHS	DK0074T	400L Series Precision Tolerance NPO RF Microwave Capacitors 16 different values, 20 pcs. min. per value	0.8 to 8.2	0.8, 0.9, 1.0, 1.1, 1.2, 1.3       ±.02         1.5, 1.8, 1.9, 2.0, 2.4       ±.03         3.3, 5.6       ±.05         6.8, 7.5, 8.2       ±0.1	\$150.00
Kit 75T	RoHS Compliant	DK0075T	400L Series Precision Tolerance NPO RF Microwave Capacitors 15 different values, 20 pcs. min. per value	10 to 68	10, 12, 15, 18, 20, 21, 22, 24, 27, 30, 33, 39, 47, 56, 68±1%	\$150.00
Kit 76T	RoHS Compliant	DK0076T	400S Series Precision Tolerance NPO RF Microwave Capacitors 16 different values, 20 pcs. min. per value	.10 to .90	.10, .15, .20, .25, .30, .35, .40, .45, .50, .55, .60, .65, .70, .75, .80, .90 ±.02	\$150.00
Kit 77T	RoHS Compliant	DK0077T	400S Series Precision Tolerance NPO RF Microwave Capacitors 16 different values, 20 pcs. min. per value	1.0 to 5.6	1.0, 1.1, 1.2, 1.5, 1.8, 1.9, 2.0	\$150.00
Kit 78T	RoHS Compliant	DK0078T	400S Series Precision Tolerance NPO RF Microwave Capacitors 15 different values, 20 pcs. min. per value	10 to 68	10, 12, 15, 18, 20, 21, 22, 24, 27, 30, 33, 39, 47, 56, 68±1%	\$150.00



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**ATC Single Layer Capacitor Design Kits:** ATC's SLC Custom Design Kits are based on the Quik Pick™ Selection Guide below. Select values from this list to build your custom Kit. For KIT 6100, select 10 different values from the Quik Pick™ List. You will receive 10 pieces of each value (total 100 pieces). For KIT 6150, select 15 values from the list. You will receive 10 pieces per value (total 150 pieces).

RoHS = RoHS Compliant Products

Kit #	RoHS Compliant	Item# Description		Cap. Value Range (pF)	Price
Kit 6100	RoHS Compliant	DK6100	116 Series Microcaps® 100 piece total, 10 values, 10 pieces per value	0.1 to 1000 pF	\$120.00
Kit 6150	RoHS Compliant	DK6150	116 Series Microcaps® 150 piece total, 15 values, 10 pieces per value	0.1 to 1000 pF	\$170.00

### SLC Selection Guide - 3 to 5 Day Shipment

Series /	Case Size (L & W)	116 R .015 (.381) nom.	116 T .025 (.635) nom.	116 U .035 (.889) nom.	116 X .050 (1.27) nom.
Cap (pF)	Cap Code	0.1 to 100 pF	0.2 to 330 pF	0.4 to 820 pF	0.8 to 1000 pF
0.1	OR1	116RA0R1A100TT			
0.2	OR2	116RBB0R2A100TT	116TA0R2A100TT		
0.3	OR3	116RBBOR3A100TT	116TA0R3A100TT		
0.4	0R4	116RCA0R4B100TT	116TA0R4A100TT	116UA0R4A100TT	
0.5	OR5	116RCA0R5B100TT	116TBB0R5A100TT	116UA0R5A100TT	
0.8	OR8	116RDB0R8B100TT	116TBB0R8B100TT	116UBBOR8A100TT	116XA0R8A100TT
1.0	1R0	116RDB1R0C100TT	116TCA1R0B100TT	116UBB1R0B100TT	116XA1R0A100TT
1.2	1R2	116RDB1R2C100TT	116TCA1R2B100TT	116UBB1R2B100TT	116XA1R2A100TT
2.7	2R7	116REA2R7M100TT	116TDB2R7C100TT	116UCA2R7C100TT	116XBB2R7C100TT
3	3R0	116REA3R0M100TT	116TDB3R0C100TT	116UCA3R0C100TT	116XBB3R0C100TT
3.6	3R6	116REA3R6M100TT	116TDB3R6D100TT	116UCA3R6D100TT	116XCA3R6C100TT
5.1	5R1	116REA5R1M100TT	116TDB5R1D100TT	116UDB5R1D100TT	116XCA5R1C100TT
10	100	116RF100M100TT	116TEA100K100TT	116UDB100K100TT	116XDB100J100TT
15	150	116RF150M100TT	116TEA150K100TT	116UEA150K100TT	116XDB150J100TT
22	220	116RGA220M100TT	116TEA220K100TT	116UEA220K100TT	116XDB220K100TT
27	270	116RGA270M100TT	116TF270K100TT	116UEA270K100TT	116XDB270K100TT
33	330	116RGA330M100TT	116TF330K100TT	116UEA330K100TT	116XEA330K100TT
47	470	116RG470M100TT	116TF470K100TT	116UF470K100TT	116XEA470K100TT
56	560	116RG560M100TT	116TF560K100TT	116UF560K100TT	116XEA560K100TT
68	680	116RK680M100TT	116TGA680K100TT	116UF680K100TT	116XEA680K100TT
82	820	116RK820M100TT	116TGA820K100TT	116UF820K100TT	116XEA820K100TT
100	101	116RL101M100TT	116TGA101K100TT	116UF101K100TT	116XF101K100TT
220	221		116TK221M100TT	116UG221M100TT	116XF221K100TT
330	331		116TL331M100TT	116UK331M100TT	116XGA331K100TT
470	471			116UK471M100TT	116XGA471K100TT
560	561			116UL561M100TT	116XG561M100TT
680	681			116UL681M100TT	116XK681M100TT
820	821			116UL821M100TT	116XK821M100TT
1000	102				116XK102M100TT

Inches (mm)



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## -W- ATC RLC DESIGN KITS -W-

**ATC Resistive Products Design Kits:** ATC's Resistive Products Design Kits contain a selection of High Power, Chip Resistors and Terminations with standard values of 50 Ohm and 100 Ohm. Operating frequencies are from DC to 6 Ghz. All designs are manufactured with Non-toxic Aluminum Nitride base substrates.

RoHS compliant Products

Kit #	RoHS Compliant	ltem #	Description	Series	Sizes	Power Handling	04	Resistance	Tal	Duisa
KIT#	Compliant	item#	Description	Series	L  imes W  imes H	Range (W)	Qty.	Value (Ohms)	Tol.	Price
			CZ1 Series Surface Mount Chip Terminations	CZ1	.200 × .100 × .040 .245 × .245 × .040 .375 × .250 × .040 .370 × .370 × .040	10 Watt 20 Watt 30 Watt 40 Watt	4 4 2 2	50 Ohm	+/- 2%	
Kit 40	RoH5 compliant	DK0040	CS1 Series Surface Mount Chip Resistors	CS1	.200 × .100 × .040 .245 × .245 × .040 .375 × .250 × .040 .370 × .370 × .040	10 Watt 20 Watt 30 Watt 40 Watt	4 4 2 2	100 Ohm	+/- 2%	\$145.00
			CW1 Series Surface Mount Chip Resistors	CW1	.200 × .100 × .040 .245 × .245 × .040 .375 × .250 × .040 .370 × .370 × .040	4 Watt 6 Watt 8 Watt 10 Watt	4 4 2 2	100 Ohm	+/- 2%	
			CT1 Series Chip Terminations	CT1	.200 × .100 × .040 .245 × .245 × .040 .375 × .250 × .040 .370 × .370 × .040	30 Watt 60 Watt 150 Watt 250 Watt	4 4 4 4	50 Ohm		
Kit 41	RoHS Compliant	DK0041	CR1 Series Chip Resistors	CR1	.100 × .050 × .025 .120 × .060 × .025 .200 × .100 × .040 .245 × .245 × .040 .375 × .250 × .040 .370 × .370 × .040	5 Watt 15 Watt 30 Watt 60 Watt 150 Watt 250 Watt	4 4 4 4 4	100 Ohm	+/- 5%	\$145.00



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ATC Inductor Design Kits: ATC's WL Series Inductor Design Kits contain a selection of standard inductance values for circuit prototyping.

RoHS = RoHS Compliant Products

Kit #	RoHS Compliant	Item #	Description	Inductor Value Range (nH)	Inductor Values (nH) Tol.	Price
Kit 51	RoHS Compliant	DK0051	0402 WL Chip Inductors 41 different values, 15 pieces per value	1.0nH to 120nH	1.0, 1.8, 2.0, 2.2, 2.7, 3.3, 3.6, 3.9, 4.3, 4.7, 5.1, 5.6, 6.2, 6.8, 7.5, 8.2 8.7, 9, 10, 11, 12, 13, 15, 18, 20, 22, 27, 30, 33, 36, 39, 40, 43, 47, 51, 56, 68, 72, 82, 100, 120	\$140.00
Kit 52	ROHS Compliant	DK0052	0603 WL Chip Inductors 50 different values, 15 pieces per value	1.6nH to 390nH	1.6, 1.8, 2.2, 2.4, 3.3, 3.9, 4.3, 5.1, 5.6, 6.3, 6.8, 7.5, 8.2, 8.7, 9.5, 10, 11, 12, 15, 17, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47, 51, 56, 62, 68, 75, 82, 91, 100, 110, 120, 140, 160, 180, 220, 240, 260, 280, 300, 330, 390 · · · · . 5%	\$140.00
Kit 53	RoHS Compliant	DK0053	0805 WL Chip Inductors 50 different values, 15 pieces per value	2.7nH to 2700nH	2.7, 3.0, 3.3, 5.6, 6.8, 7.5, 8.2, 8.7, 10, 12, 15, 18, 22, 24, 27, 30, 36, 39, 47, 56, 68, 72, 82, 91, 100, 110, 120, 150, 180, 200, 220, 240, 270, 300, 330, 390, 470, 560, 600, 620, 680, 750, 820, 910, 1000, 1200, 1500, 1800, 2200, 2700 · · · · · · · 5%	\$140.00
Kit 54	RoH5 Compliant	DK0054	1008 WL Chip Inductors 44 different values, 15 pieces per value	4.7nH to 15,000nH	4.7, 10, 15, 18, 24, 27, 33, 39, 47, 56, 68, 75, 82, 91, 100, 120, 150, 180, 220, 240, 270, 300, 330, 360, 390, 430, 470, 560, 620, 680, 750, 820, 910, 1000, 1200, 1500, 1800, 2200, 2700, 3300, 3900, 4700, 5600, 15,000	\$140.00



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### ATC RLC DESIGN KITS

ATC AT Series 0603 RF / Microwave Thin Film Attenuator Design Kits: ATC's new RF/Microwave SMT Attenuator Series (AT) is manufactured with the highest quality materials for reliable and repeatable performance. These devices are constructed with Aluminum Nitride (AIN) and are available in a standard EIA 0603 case size. The AT is ideal for impedance matching, input padding, signal level tuning, and many other critical RF/Microwave applications. The AT is rated highest power in class and is suitable for microstrip and CPW applications. Each Kit contains a selection of attenuator values for circuit prototyping.

RoHS = RoHS Compliant Products

Kit #	ROHS Compliant	ltem #	Description	Attenuator Value Range (dB)	Attenuator Values (dB)	Price
Kit 65	ROHS Compilant	DK0065	ATC AT Series 0603 RF / Microwave Thin Film Attenuator 6 different values, 10 pcs. min. per value	0 to 10	0, 1, 3, 6, 9, 10	\$75.00
Kit 66	RoH5 Comprant	DK0066	ATC AT Series 0603 RF / Microwave Thin Film Attenuator 11 different values, 10 pcs. min. per value	0 to 10	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10	\$120.00



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