

394, 395, 396 SERIES PERFORMANCE, LOW PROFILE HEAT SINKS FOR POWER MODULES

Cat. No.	Overall Dimensions: in. (mm)			Device Base Mounting Area (mm)
	Length	Height	Width	
394-1AB	3.000 (76.2)	1.500 (38.1)	5.000 (127.0)	101 x 76
394-2AB	5.500 (139.7)	1.500 (38.1)	5.000 (127.0)	101 x 139
395-1AB	3.000 (76.2)	2.500 (63.5)	5.000 (127.0)	50 x 76
395-2AB	5.500 (139.7)	2.500 (63.5)	5.000 (127.0)	50 x 139
396-1AB	3.000 (76.2)	1.380 (35.1)	5.000 (127.0)	50 x 76
396-2AB	5.500 (139.7)	1.380 (35.1)	5.000 (127.0)	50 x 139

Cat. No.	Base Mounting Holes	Thermal Resistance at Typical Load		Net Price
		Natural Convection (θ_{SA}) ¹ (°C/W)	Forced Convection (θ_{SA}) (°C/W@500LFM)	
394-1AB	4	1.85	0.90	\$24.85
394-2AB	6	1.51	0.60	31.71
395-1AB	4	1.10	0.50	25.03
395-2AB	6	0.90	0.32	33.96
396-1AB	4	1.85	1.07	22.29
396-2AB	6	1.51	0.64	28.97

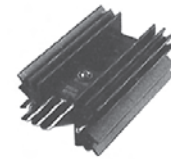
Note: ¹Thermal resistance values shown are for black anodized finish at 50°C rise above ambient.



WAKEFIELD 510 & 511 SERIES HIGH FIN DENSITY HEAT SINKS

The 510 and 511 series are unique extrusions which provide maximum cooling efficiency per unit volume. The broad flat base is ideally suited for cooling multiple power-generating components.

Cat. No.	Width	Height	Length	Net Price
510 SERIES (UNFINISHED ALUMINUM FINISH, UNMACHINED BASE)				
5103U	7.4"	3.136"	3"	\$27.01
5106U	7.4"	3.136"	6"	46.36
5109U	7.4"	3.136"	9"	66.21
51012U	7.4"	3.136"	12"	85.87
510 SERIES (UNFINISHED ALUMINUM FINISH, MACHINED BASE)				
5103M	7.4"	3.076"	3"	50.56
5106M	7.4"	3.076"	6"	72.95
5109M	7.4"	3.076"	9"	94.79
51012M	7.4"	3.076"	12"	115.96
511 SERIES (UNFINISHED ALUMINUM FINISH, UNMACHINED BASE)				
5113U	5.3"	2.335"	3"	17.95
5116U	5.3"	2.335"	6"	30.11
5119U	5.3"	2.335"	9"	72.11
51112U	5.3"	2.335"	12"	84.98
511 SERIES (UNFINISHED ALUMINUM FINISH, MACHINED BASE)				
5113M	5.3"	2.305"	3"	41.50
5116M	5.3"	2.305"	6"	56.70
5119M	5.3"	2.305"	9"	71.56
51112M	5.3"	2.305"	12"	84.24



657 SERIES HIGH-PERFORMANCE NOTCHED HEAT SINKS FOR VERTICAL BOARD MOUNTING

Cat. No.	Height Above PC Board	Thermal Performance at Typical Load		Net Price
		Natural Convection	Forced Convection	
657-10ABPN	1.000 in. (25.4)	41°C@6W	3.7°C/W@200LFM	\$1.99
657-15ABPN	1.500 in. (38.1)	38°C@6W	3.3°C/W@200LFM	2.06
657-20ABPN	2.000 in. (50.8)	32°C@6W	2.9°C/W@200LFM	2.42
657-25ABPN	2.500 in. (63.5)	25°C@6W	2.7°C/W@200LFM	2.55



WAKEFIELD 120 THERMAL JOINT COMPOUND

WAKEFIELD 120 THERMAL JOINT COMPOUND

Cat. No.	Container Size	Net Price
120-2	2 oz. jar	\$8.11
120-5	5 oz. tube	15.41
120-8	8 oz. jar	22.24
120-80	5 lb. can	134.09

WAKEFIELD 126 THERMAL JOINT COMPOUND

Cat. No.	Size	Net Price
126-2	2 oz. jar	\$12.82
126-4	4 oz. tube	19.59



WAKEFIELD DELTA BOND 152

WAKEFIELD DELTA 150 EPOXY SYSTEMS

Cat. No.	Contents	Net Price
152-1-A	1 oz BiPack Resin and Hardener "A"	\$21.67
152-K-A	7 oz Resin, .5 oz Hardener "A"	88.58
152-Q	1 quart Adhesive Resin only	111.99

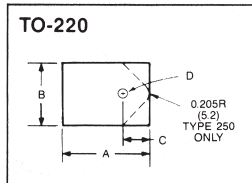
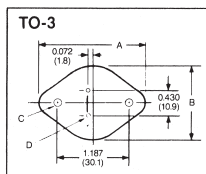
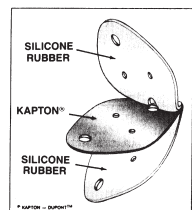


WAKEFIELD HARDENERS (FOR USE WITH DELTA BOND 152 AND DELTA CAST 153)

Cat. No.	Thermal Resistivity	Working Time @77°F	Cure Time		Shear Strength Bond @77°F 1" Overlap - PSI	
			Initial Time @250°F	Post Time (hrs) @200°F	152	153
WA-4	47°C/W	45 min	20 min	4	2900	2500
WB-4	42°C/W	30 min	15 min	4	2300	1900

WAKEFIELD HARDENERS (FOR USE WITH DELTA BOND 152 AND DELTA CAST 153)

Cat. No.	Parts of Hardener reqd. per 100 Parts of Resin	Bottle Size	Net Price
A-4	7.5	4.8 oz	\$44.73
B-4	3.5	4.8 oz	24.98



WAKEFIELD 175 SERIES GREASELESS, THERMALLY CONDUCTIVE KAPTON™ REINFORCED INSULATORS

A highly effective, thermally conductive, greaseless way to interface transistors to heat sinks. New improved Kapton™ film gives a high dielectric, physically tough insulator that withstands high voltages. No messy thermal grease is required. These insulators are the most effective products of their type. Available in standard shapes to fit TO-3 and TO-220 semiconductors.

Cat. No.	Dimensions Inches (mm)			
	A	B	C	D
FITS TO-3 CASE				
1756310P	1.593 (40,5)	1.100 (27,9)	0.156 (4,0)	0.062 (1,6)
1756320P	1.650 (41,9)	1.140 (29,0)	0.122 (3,1)	0.062 (1,6)
1756330P	1.650 (41,9)	1.140 (29,0)	0.140 (3,6)	0.093 (2,4)
FITS TO-220 CASE				
1756210P	0.687 (17,4)	0.562 (14,3)	0.218 (5,5)	0.125 (3,2)
1756220P	0.710 (18,0)	0.500 (12,7)	0.160 (4,1)	0.141 (3,6)
1756230P	0.750 (19,1)	0.500 (12,7)	0.187 (4,7)	0.125 (3,2)
1756240P	0.750 (19,1)	0.500 (12,7)	0.187 (4,7)	0.147 (3,7)
1756250P	0.865 (22,0)	0.650 (16,5)	0.250 (5,2)	0.140 (3,6)

WAKEFIELD 175 SERIES KAPTON REINFORCED INSULATORS

Cat. No.	Thermal Resistance	Dielectric Strength	Thermal Conduct.	Net Price
FITS TO-3 CASE				
1756310P	0.40°C/W	6000V	1.2 × 10 ⁻³	\$44
1756320P				.71
1756330P				.33
FITS TO-220 CASE				
1756210P	0.40°C/W	6000V	1.2 × 10 ⁻³	.24
1756220P				.21
1756230P				.17
1756240P				.18
1756250P				.29



156 SERIES

WAKEFIELD DELTA BOND 156

This adhesive is designed for permanent mounting of components where heat must be efficiently transmitted. Replaces mechanical fasteners and compressible pads, silicon grease, and epoxies; eliminates air entrapment and other variables related to epoxy mixing. A modified acrylic adhesive which, when used with DeltaBOND Activator, fixtures at room temperature in less than five minutes. Full strength is developed in 4 to 12 hours and fillets become dry to the touch in 24 hours. Only recommended for use with DeltaBOND Activator.

NOTE: This adhesive contains a metallic filler which, in certain applications, may have an effect on electrical properties. Therefore, test each particular application to ensure that electrical properties are as required.

Cat. No.	Description	Net Price
THERMALLY CONDUCTIVE ADHESIVE KIT		
156K	25 ml Syringe and Activator Kit	\$47.76

electro sonic

Electro Sonic
appreciates your business

1-800-56-SONIC

www.e-sonic.com

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1671



1672



1697

DUSTERS & FREEZERS

All techspray dusters and freezer products are made of exceptionally pure HFC-134a, which is a moisture-free, non-flammable, non-ozone depleting gas.

TECHSPRAY DUSTER

Blows away microscopic contaminants, lint, dust, metallic oxide deposits and other soils that can cause heat build up or shorts in sensitive electronics.

Cat. No.	Description	Net Price
1671-10S	10 Ounce Aerosol	\$10.77
1671-15S	15 Ounce Aerosol	13.69

VORTEX 360° DUSTER

Provides high velocity blast to remove dust, lint, and other contaminants from computers, printers, and optics. Vortex 360° can be sprayed in any direction without risk of dispensing liquid refrigerant on valuable equipment.

Cat. No.	Description	Net Price
1697-8S	8 Ounce Aerosol	\$15.44

TECHSPRAY FREEZER

A rapidly evaporating liquid that chills to minus 62°F. Used as a troubleshooting aid for intermittently faulting capacitors, resistors, semi-conductors, and other defective components.

Cat. No.	Description	Net Price
1672-10S	10 Ounce Aerosol	\$10.88

DEGREASER NF

A non-flammable heavy duty cleaner/degreaser used to penetrate and dissolve soils such as oil, grease, wax, tar, adhesive and rosin. An excellent cleaning product for electronic and electrical equipment, machinery and metal parts.

Cat. No.	Description	Net Price
3070-19S	19 Ounce Aerosol	\$8.87

ADVANEX 10

A general purpose, economy lubricant for all industrial applications. The high flash point lubricant, combined with a non-flammable propellant, makes Advanex 10 the ideal choice.

Cat. No.	Description	Net Price
3100-15S	15 Ounce Aerosol	\$6.10

ECOLUBE

Ecolube has the solvency of the Ecoline Contact Cleaner (1622), and contains silicone as its lubricant. This product does not contain CFCs, HCFCs, or 1,1,1-trichloroethane.

Cat. No.	Description	Net Price
2413-8S	8 oz. Aerosol	\$11.77



SILICONE FREE HEAT SINK COMPOUND

A silicone free compound applied under power transistors and other devices that generate heat to assist in transferring heat from generating objects. Will not harden. -40°C up to 20°C.

Cat. No.	Description	Net Price
1978-DP	4 Ounce Squeeze Tube	\$28.24



TECHSPRAY DESOLDERING BRAID

TechSpray's desoldering braid combines innovative product design with proprietary processing to make it the top name in wick! The braid design has a strong capillary action that works instantly to pull solder. To ensure fast reliable wicking action, the copper braid is cleaned using a proprietary, multistage process that removes oxidation and other residues before flux is added. TechSpray desoldering braid is available in static dissipative bobbins for static sensitive environments.

Cat. No.	Size	Colour	Availability**
PRO WICK			
1801-XXX	#1	White	5F, 10F, 25F, 50F, 100F, 500F
1802-XXX	#2	Yellow	
1803-XXX	#3	Green	
1804-XXX	#4	Blue	
1805-XXX	#5	Brown	
1806-XXX	#6	Red	5F, 25F, 50F, 100F, 500F

PRO WICK ANTI-STATIC BOBBIN

1808-XXX	#1	White	5F, 10F, 25F, 50F, 100F
1809-XXX	#2	Yellow	
1810-XXX	#3	Green	
1811-XXX	#4	Blue	
1812-XXX	#5	Brown	5F, 10F, 24F, 50F
1813-XXX	#6	Red	5F, 25F
1826-XXX	SMT	Grey	5F, 10F
1828-XXX	BGA	Purple	5F

NO-CLEAN WICK

1814-XXX	#1	White	5F, 10F, 25F, 50F, 100F, 500F
1815-XXX	#2	Yellow	
1816-XXX	#3	Green	
1817-XXX	#4	Blue	
1818-XXX	#5	Brown	
1819-XXX	#6	Red	5F, 25F, 50F, 100F, 500F

NO-CLEAN WICK ANTI-STATIC BOBBIN

1820-XXX	#1	White	5F, 10F, 25F, 50F, 100F
1821-XXX	#2	Yellow	
1822-XXX	#3	Green	
1823-XXX	#4	Blue	
1824-XXX	#5	Brown	5F, 10F, 25F, 50F
1825-XXX	#6	Red	5F, 25F
1827-XXX	SMT	Grey	5F, 10F
1829-XXX	BGA	Purple	5F

UNFLUXED WICK

1830-XXX	#1	White	5F, 10F
1831-XXX	#2	Yellow	
1832-XXX	#3	Green	
1833-XXX	#4	Blue	
1834-XXX	#5	Brown	
1835-XXX	#6	Red	5F

**Replace -XXX in Cat. No. with footage indicated in Availability column above. Contact your Electro Sonic sales representative for pricing and availability.



SOLDER FAULT MARKER

Convenient applicator designed to mark solder faults for identification and subsequent re-work. The highly visible yellow colouring combined with a black light indicator ensures quick recognition. Marking agent is quick drying, non-stringing, and is removed with warm water or TechSpray solvents. **Applications:** Solder Fault Marking. Rework. Faulty Component Identification. Any application that requires temporary identification and marking.

Cat. No.	Description	Net Price
1850-W	Fault Marking Pen Containing 10 ml Yellow Solution	\$9.19