## **ACCESSORY PRODUCTS**

FOR PROTOTYPE DEVELOPMENT AND FABRICATION



## SERIES C CARBIDE PRINTED CIRCUIT DRILL BITS



This series of drill bits designed for drilling FR-4 circuit board materials feature common 1/8th in. shanks. The drill element is fabricated of solid carbide and the shanks are stainless steel. Carbide is the preferred material for drilling glass epoxy circuit board laminates due to its exceptional hardness. Unlike high speed steel bits which become dull quickly, these carbide bits are capable of several hundred or even thousands of hits before significant degradation of sharpness\*. Designed for high speed equipment operating up to 80,000 RPM, these drills can also be used at lower speeds by using a slower feed rate. Due to the brittleness of carbide these drills are recommended for drill press use or use with precision equipment. Care must be taken not to drop or flex them as breakage may occur. Use these bits to make your own printed circuits or modify SURFBOARDS surface mount breadboards or other types of boards.

While designed for printed circuit use these tools may be used with other materials such as plastics and metals. The user is advised to evaluate the suitability for any given use by trial and possible adjustment of speed or feed rate.

PART NUMBER	DRILL SIZE	SIZE INCHES	SIZE MM
DBC80-1	80	.0135	.34
DBC75-1	75	.021	.53
DBC72-1	72	.025	.64
DBC69-1	69	.0292	.74
DBC68-1	68	.031	.79
DBC66-1	66	.033	.84
DBC64-1	64	.036	.91
DBC60-1	60	.040	1.02
DBC56-1	56	.0465	1.18
DBC55-1	55	.052	1.32
DBC52-1	52	.0635	1.61
DBC51-1	51	.067	1.70
DBC48-1	48	.076	1.93
1/8 in. SHANK 1.5 in. OAL			

\* The number of holes that can be drilled is dependent on a number of factors including feed rate, speed, material characteristics, and what the user considers acceptable hole quality.

Copyright 2014 by Capital Advanced Technologies, Inc. All rights reserved. SURFBOARDS is a registered trademark of Capital Advanced Technologies, Inc. All other trademarks are the property of their respective owners. Specifications, availability, and price is subject to change without notice. All information given is believed to be accurate but is not guaranteed. The user of information given or products represented by such information is responsible for determining the suitability of asid information or products for a given purpose. No inducement is intended or permission granted for infringement of any patent or unauthorized use of any intellectual property of Capital Advanced Technologies or others. Availability, Price, and specifications subject to change without notice.

> CAPITAL ADVANCED TECHNOLOGIES, INC. CAROL STREAM, ILLINOIS. USA PHONE 630-690-1696 FAX 630-690-2498 WWW.CapitalAdvanced.Com