























ød DIAMETER	I FLUTE LENGTH		
0.20	3.50	-	
0.25	3.50	-	
0.30	3.50	5.00	
0.35	5.00	5.00	
0.55	0.00	0.00	
0.40	5.00	5.00	
0.45			
0.45	5.00	5.00	

On request Inch / Special dimensions / Shank 3.00mm

APPLICATION

Drilling of IMS PCBs and laminates with ceramic fillers

High Tg material ≥ 170°C

Also Suitable for Drilling in

- Glass
- Quartz
- Green stage ceramics Al₂O₃, SiC, ZrO₂, AlN

FEATURES & BENEFITS

High feed drilling hence high productivity

Improved tool life ~ 5-20X

High dimensional accuracy

High Hardness ~ 10000 HV

RECOMMENDED PARAMETERS										
ød mm	High Tg v	High Tg with Ceramic Fillers (Tg ≥ 170° C)				IMS PCBs Aluminium				
	f µm/rev	N RPM	F m/min	B m/min	f μm/rev	N RPM	F m/min	B m/min		
0.20	5	200000	1.0	5.0	3	200000	0.6	4.0		
0.25	6	200000	1.2	5.0	3	200000	0.8	4.0		
0.30	8	200000	1.6	6.0	8	200000	1.6	4.0		
0.35	10	170000	1.7	7.0	10	200000	2.0	5.0		
0.40	12	150000	1.8	8.0	12	200000	2.4	6.0		
0.45	13	135000	1.8	9.0	14	177000	2.5	7.0		
31.0	ød Tool Diameter		ip Load	N Spindle Spee		Infeed	B Retract Fee			

Tabulated parameters provide guidelines which acts as starting points for optimising speeds and feeds at the user's end.

PACKING

10 tools per pack

50 tools per pack

REMARKS

- For laminate with ceramic dielectric, reduce RPM by 15% for IMS PCBs.
- For Copper IMS PCB reduce RPM by ~
 - $\,\sim\,20\%$ and feed rate by 25% from above IMS PCBs parameters.

PEOPLE

- Recommended to use MQL with coolants like Ethanol or oil emulsion for improved performance and dimensional control.
- Control collet runout below 10 microns and vibration.
- $\hbox{- Please visit our website for cutting parameter for other materials.}$





