























I FLUTE LENGTH mm
12.00
12.00
12.00
12.00
12.00
12.00
12.00

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 AI_2O_3 , SiC, ZrO_2 , AIN

FEATURES & BENEFITS

High feed drilling hence high productivity

Improved tool life ~ 5-20X

High dimensional accuracy

High Hardness _ 10000 HV

RECOMMENDED PARAMETERS									
Ød	High Tg with Ceramic Fillers (Tg ≥ 170° C)				IMS PCBs Aluminium				
mm	f μm/rev	N RPM	F m/min	B m/min	f µm/rev	N RPM	F m/min	B m/m	
3.20 - 3.95	35	20000	0.7	15.0	40	25000	1.0	10.0	
4.00 - 4.95	30	20000	0.6	15.0	32	25000	0.8	10.0	
5.00 - 5.95	25	20000	0.5	15.0	24	25000	0.8	10.0	
6.00 - 6.50	20	20000	0.4	15.0	20	25000	0.5	10.0	
Ø	ød Tool Diameter f Chip Load N Spindle			N Spindle Sp	eed F Infeed B Retract Feed				
Tabulated parameters provide guidelines which acts as starting points for optimising speeds and feeds at the user's end.									

PACKING

25 tools per pack

50 tools per pack

- 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.
- 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.
- Please visit our website for cutting parameter for other materials.



