



FEATURE	Current Products	Advanced Products	Emerging Products
1 Drilling Aspect Ratio—Drilled Hole Size	8: 1	12: 1	15: 1
2 Min. Drilled Hole Size (vias)	0.008	0.007	0.006
3 Min. Finished Hole Size (vias)	0.008	0.006	0.004
4 Min. Outer Layer Via Land Size	0.018	0.016	0.014
5 Min. Inner Layer Via Land Size	0.020	0.018	0.016
6 Min. Via Relief on Power / Ground Planes	0.024	0.020	0.014
7 Min. Blind / Buried Via Land Size	0.020	0.018	0.014
8 Min. Blind / Buried Via Hole Size (Drilled)	0.010	0.008	0.006
9 Min. Outer Layer Line Width	0.004	0.003	0.003
10 Min. Inner Layer Line Width	0.004	0.003	0.002
11 Min. Outer Layer Line to Line Spacing	0.004	0.003	0.003
12 Min. Inner Layer Line to Line Spacing	0.004	0.003	0.002
13 Min. Line to Via Land Spacing	0.004	0.003	0.003
14 Layer to Layer Registration Tolerance	0.005	0.003	0.003
15 Min. Component Pitch	0.016	0.012	0.006
16 Max. Overall Board Thickness	0.250	0.250	0.250
17 Min. Dielectric Thickness Signal-Signal	0.0025	0.002	0.002
18 Minimum Soldermask Webbing	0.004	0.003	0.0025
19 Line to SMT Minimum Space	0.007	0.006	0.004
20 Min. Base Copper Weights	0.0007	0.00035	0.00035
21 Layer Count	2-16	18-24	24+
22 Maximum Panel Size	21x24	21x24	21x24
23 Fabrication Radius	0.031	0.016	0.010
24 Warpage (Design Dependent)	1.00%	0.75%	0.50%
25 Plated Hole Tol. (Design Dependent)	+/- .003	+/- .002	+/- .002
26 Impedance Tolerance	+/- 10%	+/- 8%	+/- 5%

AVAILABLE SURFACE FINISHES

Hot Air Solder Level (HASL)
Immersion White Tin
ENIG
Immersion Silver
Electroplated Gold

Electroplated Nickel
Organic Coatings (OSP)
Immersion Nickel
Wirebondable Gold
Lead free HASL

AGENCY QUALIFICATIONS

UL (File # E134393) 130 Deg MOT
ISO 9001:2008 (Smithers Cert # 10.091.1)
AS9100B (Smithers Cert # 10.091.1)
IPC-6012 Class 3
MIL-PRF-55110 (Cage Code 1BQS8)

COMMUNICATION FORMATS

Email: techservice@multicircuits.com
Secure File Transfer: <http://multicircuits.sharefile.com> (call for account setup)
Drill Files: Excellon V1 or V2
Artwork Files: Gerber 274, Gerber 274X, ODB++
Fabrication Drawings: HPGL, DXF, DWG, PLT, Gerber