



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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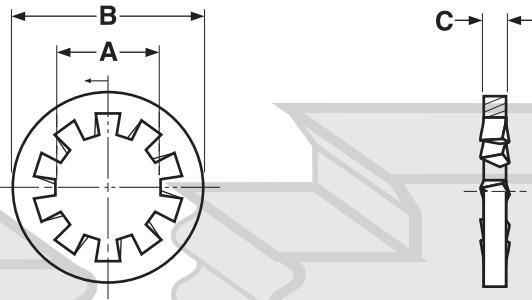
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Steel & Stainless Lockwashers **INTERNAL TOOTH**



INTERNAL TOOTH LOCK WASHERS								ASME B18.21.1-2009	
Nominal Washer Size		A		B		C			
		Inside Diameter		Outside Diameter		Thickness			
		Max	Min	Max	Min	Max	Min		
#2	0.086	0.095	0.089	0.200	0.175	0.016	0.010		
#3	0.099	0.109	0.102	0.232	0.215	0.016	0.010		
#4	0.112	0.123	0.115	0.270	0.245	0.018	0.012		
#5	0.125	0.136	0.129	0.280	0.255	0.020	0.014		
#6	0.138	0.150	0.141	0.295	0.275	0.022	0.016		
#8	0.164	0.176	0.168	0.340	0.325	0.023	0.018		
#10	0.190	0.204	0.195	0.381	0.365	0.024	0.018		
#12	0.216	0.231	0.221	0.410	0.394	0.027	0.020		
1/4	0.250	0.267	0.256	0.478	0.460	0.028	0.023		
5/16	0.312	0.332	0.320	0.610	0.594	0.034	0.028		
3/8	0.375	0.398	0.384	0.692	0.670	0.040	0.032		
7/16	0.438	0.464	0.448	0.789	0.740	0.040	0.032		
1/2	0.500	0.530	0.512	0.900	0.867	0.045	0.037		
9/16	0.5625	0.596	0.576	0.985	0.957	0.045	0.037		
5/8	0.625	0.663	0.640	1.071	1.045	0.050	0.042		
3/4	0.750	0.795	0.769	1.245	1.220	0.055	0.047		
7/8	0.875	0.927	0.894	1.410	1.364	0.060	0.052		
1	1.000	1.060	1.019	1.637	1.590	0.067	0.059		
1 1/8	1.125	1.192	1.144	1.830	1.799	0.067	0.059		
1 1/4	1.250	1.325	1.275	1.975	1.921	0.067	0.059		
1/8	Pipe	0.425	0.410	0.615	0.595	0.022	0.017		

Description	A hardened circular washer with twisted prongs or "teeth" which extend inward from the inside edge of the washer.
Applications/ Advantages	This is preferred when finished appearance is crucial and the teeth must be hidden under the head of the screw; also recommended for use with small heads such as fillisters.
Material	<i>Steel:</i> SAE 1050 - 1065 spring steel. <i>18-8 Stainless:</i> SAE 301 - 305 stainless steel. <i>316 Stainless:</i> SAE 316 stainless steel. <i>410 Stainless:</i> SAE 410 stainless steel.
Hardness	<i>Steel:</i> Rockwell C40 - 50 <i>18-8 Stainless:</i> Annealed 88 minimum Rockwell B, 1/4 hard through full hard Rockwell C20 - 45 <i>410 Stainless:</i> Rockwell C40 - 50
Plating	See Appendix-A for information on the plating of steel lock washers.