
Apéndice B

Tablas de Diseño

En este apéndice están contenidas las tablas para diseñar filtros elípticos con $A_{\max} = 0.1$ dB y $A_{\max} = 1$ dB. Las funciones de transferencia que se presentan en las tablas son de filtros pasa-bajas.

Tabla B.1

Odd and case *A* even: 0.1-dB passband ripple

<i>n</i>	ω_s	K_s (dB)	c_i	p_i	a_i	b_i
2	1.05	.343	1.438664	$-.075407 \pm j1.180400$	.150814	1.399030
	1.10	.559	1.714083	$-.129483 \pm j1.268507$	.258966	1.625877
	1.20	1.075	2.235990	$-.236268 \pm j1.393844$	.472537	1.998624
	1.50	3.210	3.927051	$-.534107 \pm j1.568367$	1.068213	2.745046
	2.00	7.418	7.464102	$-.843443 \pm j1.581991$	1.686887	3.214092
3	1.05	1.748	1.205410	$-.044853 \pm j1.079332$ -2.812966	.089707	1.166969
	1.10	3.374	1.370314	$-.085421 \pm j1.121848$ -2.240832	.170843	1.265840
	1.20	6.691	1.699617	$-.156766 \pm j1.170259$ -1.744102	.313532	1.394082
	1.50	14.848	2.806014	$-.289646 \pm j1.212428$ -1.298182	.579292	1.553876
	2.00	24.010	5.153209	$-.381858 \pm j1.217905$ -1.116765	.763717	1.629108
4	1.05	6.397	1.153634 3.312518	$-.618576 \pm j1.143244$ $-.037598 \pm j1.045948$	1.237152 .075196	1.689644 1.095422
	1.10	10.721	1.290925 4.349930	$-.703816 \pm j .976495$ $-.066734 \pm j1.066126$	1.407633 .133467	1.448899 1.141079
	1.20	17.051	1.572430 6.224402	$-.108448 \pm j1.086869$ $-.726853 \pm j .798154$	.216897 1.453706	1.193044 1.165365
	1.50	29.064	2.535553 12.099310	$-.698734 \pm j .616949$ $-.173627 \pm j1.108114$	1.397469 .347253	.868855 1.258062
	2.00	41.447	4.593261 24.227201	$-.670443 \pm j .535639$ $-.216254 \pm j1.116820$	1.340886 .432509	.736403 1.294053
5	1.05	13.841	1.133422 1.773739	$-.266902 \pm j1.015887$ $-.030115 \pm j1.028040$ -1.128858	.533804 .060229	1.103263 1.057772
	1.10	20.050	1.259320 2.193093	$-.329692 \pm j .953299$ $-.049533 \pm j1.039346$ $-.932112$	.659383 .099067	1.017475 1.082694
	1.20	28.303	1.521127 2.968367	$-.379155 \pm j .875398$ $-.075430 \pm j1.051645$ $-.782858$	.758311 .150860	.910081 1.111647
	1.50	43.415	2.425515 5.437645	$-.417037 \pm j .775766$ $-.114129 \pm j1.066151$ $-.649753$	.834075 .228259	.775733 1.149703
	2.00	58.901	4.364951 10.567732	$-.429092 \pm j .721329$ $-.138913 \pm j1.073567$ $-.590933$	.858183 .277825	.704436 1.171844
6	1.05	22.088	1.123326 1.438664 6.528768	$-.647026 \pm j .628506$ $-.151511 \pm j .985417$ $-.023386 \pm j1.018380$	1.294052 .303023 .046771	.813662 .994002 1.037644
	1.10	29.686	1.243362 1.714083 8.826455	$-.599771 \pm j .517581$ $-.194450 \pm j .951604$ $-.036964 \pm j1.025840$	1.199542 .388900 .073927	.627615 .943361 1.053714
	1.20	39.630	1.495035 2.235990 12.952671	$-.547628 \pm j .429686$ $-.235429 \pm j .907696$ $-.054595 \pm j1.034294$	1.095257 .470859 .109189	.484527 .879339 1.072744
	1.50	57.772	2.369289 3.927051 25.827242	$-.487832 \pm j .349732$ $-.277388 \pm j .846778$ $-.080385 \pm j1.044897$	.975663 .554775 .160770	.360292 .793976 1.098271

Tabla B.2

Odd and case *A* even: 1.0-dB passband ripple

<i>n</i>	ω_s	K_s (dB)	c_i	p_i	a_i	b_i
2	1.05	2.816	1.438664	$-.157083 \pm j1.068900$	.314166	1.167222
	1.10	4.025	1.714083	$-.229129 \pm j1.075841$	.458258	1.209934
	1.20	6.150	2.235990	$-.320565 \pm j1.064452$	.641131	1.235820
	1.50	11.194	3.927051	$-.439709 \pm j1.010488$	.879418	1.214431
	2.00	17.095	7.464102	$-.499471 \pm j.959482$	.998942	1.170077
3	1.05	8.134	1.205410	$-.065504 \pm j1.017106$ $-.947805$	.131007	1.038796
	1.10	11.480	1.370314	$-.097651 \pm j1.016303$ $-.816161$	.195302	1.042407
	1.20	16.209	1.699617	$-.136461 \pm j1.010059$ $-.701999$	.272923	1.038841
	1.50	25.176	2.806014	$-.187698 \pm j.994225$ $-.591015$	.375396	1.023714
	2.00	34.454	5.153209	$-.217034 \pm j.981575$ $-.539958$	.434067	1.010594
4	1.05	15.840	1.153634 3.312518	$-.400926 \pm j.723958$ $-.036963 \pm j1.004642$	.801852 .073925	.684857 1.010671
	1.10	20.832	1.290925 4.349930	$-.399229 \pm j.638481$ $-.054484 \pm j1.003351$	.798458 .108969	.567042 1.009681
	1.20	27.432	1.572430 6.224402	$-.386971 \pm j.560447$ $-.075673 \pm j1.000256$	.773942 .151346	.463847 1.006238
	1.50	39.518	2.535553 12.099310	$-.364988 \pm j.480692$ $-.104409 \pm j.993937$	.729977 .208819	.364281 .998811
	2.00	51.906	4.593261 24.227201	$-.351273 \pm j.442498$ $-.121478 \pm j.989176$	.702546 .242957	.319197 .993226
5	1.05	24.135	1.133422 1.773739	$-.181185 \pm j.858432$ $-.023559 \pm j1.001164$ $-.511794$	.362371 .047118	.769820 1.002885
	1.10	30.471	1.259320 2.193093	$-.202145 \pm j.804785$ $-.034621 \pm j1.000221$ $-.446562$	.404289 .069241	.688541 1.001640
	1.20	38.757	1.521127 2.968367	$-.217568 \pm j.748167$ $-.048084 \pm j.998478$ $-.391579$	.435136 .096167	.607089 .999271
	1.50	53.875	2.425515 5.437645	$-.228875 \pm j.681678$ $-.066541 \pm j.995254$ $-.337846$	.457749 .133081	.517069 .994957
	2.00	69.360	4.364951 10.567732	$-.232338 \pm j.646440$ $-.077625 \pm j.992914$ $-.312599$	.464676 .155249	.471866 .991903
6	1.05	32.523	1.123326 1.438664 6.528768	$-.340554 \pm j.466561$ $-.099253 \pm j.910440$ $-.016283 \pm j1.000095$	.681109 .198505 .032567	.333656 .838752 1.000456
	1.10	40.142	1.243362 1.714083 8.826455	$-.315089 \pm j.409244$ $-.118730 \pm j.874514$ $-.023927 \pm j.999416$	.630179 .237461 .047854	.266762 .778873 .999404