

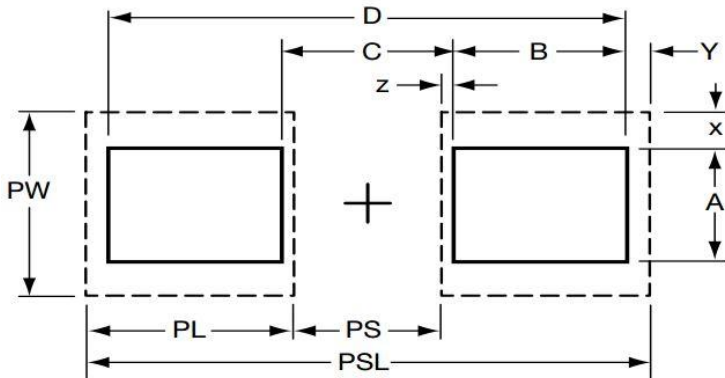
PCB Footprint Library

- Tantalum Capacitors
- EIA Standard
- Low Inductance MLCs
- Chip Film Capacitors
- SuperCaps
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Tantalum Capacitors

Footprint Library



Note:

These recommendations (also in compliance with EIA) are guidelines only. With care and control, smaller footprints may be considered for reflow soldering.

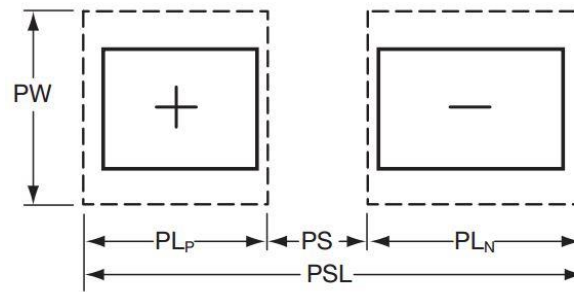
PAD DIMENSIONS: millimeters (inches)

Case Size		PSL	PL	PS	PW	PWw
Series	A	4.00 (0.157)	1.40 (0.054)	1.20 (0.047)	1.80 (0.071)	0.90 (0.035)
	B	4.00 (0.157)	1.40 (0.054)	1.20 (0.047)	2.80 (0.110)	1.60 (0.063)
	C	6.50 (0.256)	2.00 (0.079)	2.50 (0.098)	2.80 (0.110)	1.60 (0.063)
	D	8.00 (0.315)	2.00 (0.079)	4.00 (0.157)	3.00 (0.119)	1.70 (0.063)
	E	8.00 (0.315)	2.00 (0.079)	4.00 (0.157)	3.00 (0.119)	1.70 (0.063)
	F	6.50 (0.256)	2.00 (0.079)	2.50 (0.098)	2.80 (0.110)	1.60 (0.063)
	G	4.00 (0.157)	1.40 (0.054)	1.20 (0.047)	1.80 (0.071)	0.90 (0.035)
	H	4.00 (0.157)	1.40 (0.054)	1.20 (0.047)	2.80 (0.110)	1.60 (0.063)
	K	4.00 (0.157)	1.40 (0.054)	1.20 (0.047)	1.80 (0.071)	0.90 (0.035)
	L	4.00 (0.157)	1.40 (0.054)	1.20 (0.047)	2.80 (0.110)	1.60 (0.063)
	N	2.70 (0.100)	0.95 (0.037)	0.80 (0.030)	1.60 (0.060)	0.80 (0.030)
	P	2.70 (0.100)	0.95 (0.037)	0.80 (0.030)	1.60 (0.060)	0.80 (0.030)
	R	2.70 (0.100)	0.95 (0.037)	0.80 (0.030)	1.60 (0.060)	0.80 (0.030)
	S	4.00 (0.157)	1.40 (0.054)	1.20 (0.047)	1.80 (0.071)	0.90 (0.035)
	T	4.00 (0.157)	1.40 (0.054)	1.20 (0.047)	2.80 (0.110)	1.60 (0.063)
	U	8.00 (0.315)	2.00 (0.079)	4.00 (0.157)	3.70 (0.145)	1.80 (0.071)
	V	8.00 (0.315)	2.00 (0.079)	4.00 (0.157)	3.70 (0.145)	1.80 (0.071)
	W	6.50 (0.256)	2.00 (0.079)	2.50 (0.098)	2.80 (0.110)	1.60 (0.063)
	X	8.00 (0.315)	2.00 (0.079)	4.00 (0.157)	3.00 (0.119)	1.70 (0.063)
	Y	8.00 (0.315)	2.00 (0.079)	4.00 (0.157)	3.00 (0.119)	1.70 (0.063)
	Z	8.00 (0.315)	2.00 (0.079)	4.00 (0.157)	3.70 (0.145)	1.80 (0.071)
TLN, TCN & J-CAP Undertab	H	4.00 (0.157)	1.40 (0.054)	1.20 (0.047)	2.80 (0.110)	N/A
	K	4.00 (0.157)	1.40 (0.054)	1.20 (0.047)	1.80 (0.071)	N/A
	L	3.50 (0.138)	1.15 (0.045)	1.20 (0.047)	2.40 (0.094)	N/A
	M	2.30 (0.091)	0.90 (0.035)	0.50 (0.020)	1.10 (0.043)	N/A
	N	2.00 (0.079)	0.70 (0.028)	0.60 (0.024)	1.10 (0.043)	N/A
	S	3.50 (0.138)	1.15 (0.045)	1.20 (0.047)	1.20 (0.047)	N/A
	Y	7.20 (0.283)	1.50 (0.059)	4.20 (0.165)	2.50 (0.098)	N/A
TACmicro-chip® Series	G	15.20 (0.598)	3.00 (0.120)	9.20 (0.360)	5.50 (0.217)	N/A
	A	4.40 (0.173)	1.60 (0.063)	1.20 (0.047)	1.80 (0.071)	0.90 (0.035)
	B	4.70 (0.185)	1.70 (0.070)	1.30 (0.051)	3.00 (0.118)	1.50 (0.059)
	C	4.40 (0.173)	1.60 (0.063)	1.20 (0.047)	1.80 (0.071)	0.90 (0.035)
	D	4.40 (0.173)	1.60 (0.063)	1.20 (0.047)	1.80 (0.071)	0.90 (0.035)
	E	0.90 (0.035)	0.30 (0.012)	0.30 (0.012)	0.30 (0.012)	N/A
	H	3.20 (0.126)	1.30 (0.051)	0.60 (0.024)	1.50 (0.059)	0.075 (0.003)
	J	2.80 (0.110)	1.10 (0.043)	0.60 (0.024)	1.00 (0.039)	0.50 (0.020)
	K	2.20 (0.087)	0.90 (0.035)	0.40 (0.016)	0.70 (0.028)	0.35 (0.014)
	L	2.80 (0.110)	1.10 (0.043)	0.60 (0.024)	1.00 (0.039)	0.50 (0.020)
	M	3.20 (0.126)	1.30 (0.051)	0.60 (0.024)	1.00 (0.039)	0.50 (0.020)
	Q	3.20 (0.126)	1.30 (0.051)	0.60 (0.024)	1.50 (0.059)	0.075 (0.003)
	R	3.20 (0.126)	1.30 (0.051)	0.60 (0.024)	1.50 (0.059)	0.075 (0.003)
	S	4.40 (0.173)	1.60 (0.063)	1.20 (0.047)	1.80 (0.071)	0.90 (0.035)
	T	4.70 (0.185)	1.70 (0.070)	1.30 (0.051)	3.00 (0.118)	1.50 (0.059)
	U	3.20 (0.126)	1.30 (0.051)	0.60 (0.024)	1.50 (0.059)	0.075 (0.003)
	V	4.40 (0.173)	1.60 (0.063)	1.20 (0.047)	1.80 (0.071)	0.90 (0.035)
	Z	2.80 (0.110)	1.10 (0.043)	0.60 (0.024)	0.70 (0.028)	0.35 (0.014)

Note: SMD 'J' Lead = TAJ, TMJ, TPS, TPM, TRJ, TRM, THJ, TLJ, TCJ, TCM, TCR

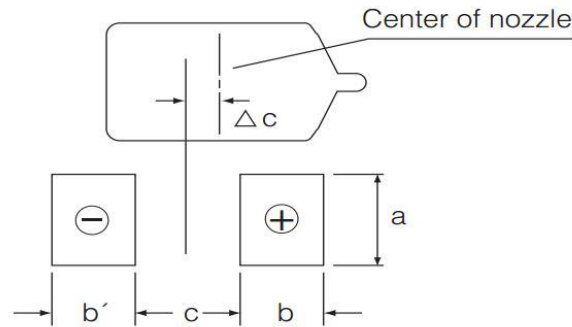
Tantalum Capacitors

Footprint Library



Case Size		PSL	PL _p	PL _N	PS	PW
Series	T	9.60 (0.378)	1.10 (0.043)	1.30 (0.051)	1.20 (0.047)	2.50 (0.098)
	TLN, TCN	7.30 (0.287)	2.00 (0.079)	3.20 (0.126)	2.10 (0.083)	3.30 (0.130)
	& J-CAP	7.60 (0.299)	2.20 (0.087)	3.40 (0.134)	2.00 (0.079)	4.80 (0.190)
	Undertab	7.60 (0.299)	2.20 (0.087)	3.40 (0.134)	2.00 (0.079)	4.80 (0.190)

F-SERIES: millimeters (inches)



Case Size		a	b	b'	c	Δc*
Series	U	0.35 (0.014)	0.40 (0.016)	0.40 (0.016)	0.40 (0.016)	0.00
	M	0.65 (0.026)	0.70 (0.028)	0.70 (0.028)	0.60 (0.024)	0.00
	S	0.90 (0.035)	0.70 (0.028)	0.70 (0.028)	0.80 (0.032)	0.00
	P	1.00 (0.039)	1.10 (0.043)	1.10 (0.043)	0.40 (0.016)	0.00
	A	1.30 (0.051)	1.40 (0.060)	1.40 (0.060)	1.00 (0.039)	0.00
	B	2.30 (0.091)	1.40 (0.060)	1.40 (0.060)	1.30 (0.051)	0.00
	C	2.30 (0.091)	2.00 (0.079)	2.00 (0.079)	2.70 (0.106)	0.00
	N	2.50 (0.091)	2.00 (0.079)	2.00 (0.079)	4.00 (0.158)	0.00
F38, F91, F92, F93, F97, F98	R-P	1.40 (0.055)	0.60 (0.024)	0.50 (0.020)	0.70 (0.028)	0.20 (0.008)
	Q-S	1.70 (0.067)	0.70 (0.028)	0.60 (0.024)	1.10 (0.043)	0.20 (0.008)
	A	1.80 (0.071)	0.70 (0.028)	0.60 (0.024)	1.10 (0.043)	0.20 (0.008)
	T	2.60 (0.102)	0.70 (0.028)	0.60 (0.024)	1.20 (0.047)	0.20 (0.008)
	B	2.60 (0.102)	0.80 (0.032)	0.70 (0.028)	1.10 (0.043)	0.20 (0.008)
F95, AUDIO F95						
Conformal						
F72	R-M	5.80 (0.228)	1.20 (0.047)	1.20 (0.047)	3.90 (0.154)	0.50 (0.020)
Conformal						
F75	U-C	3.00 (0.118)	1.20 (0.047)	1.20 (0.047)	3.30 (0.130)	0.50 (0.020)
Conformal	D	4.10 (0.161)	1.20 (0.047)	1.20 (0.047)	3.90 (0.154)	0.50 (0.020)
	R	5.80 (0.228)	1.20 (0.047)	1.20 (0.047)	3.90 (0.154)	0.50 (0.020)

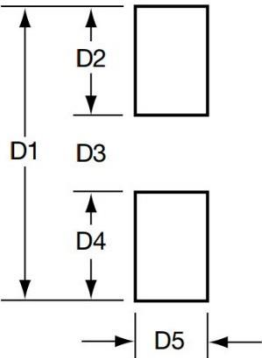
*In the case of mounting conformal coated capacitors, offcentering (Δc) is needed to accept anode tab [△]

Tantalum Capacitors

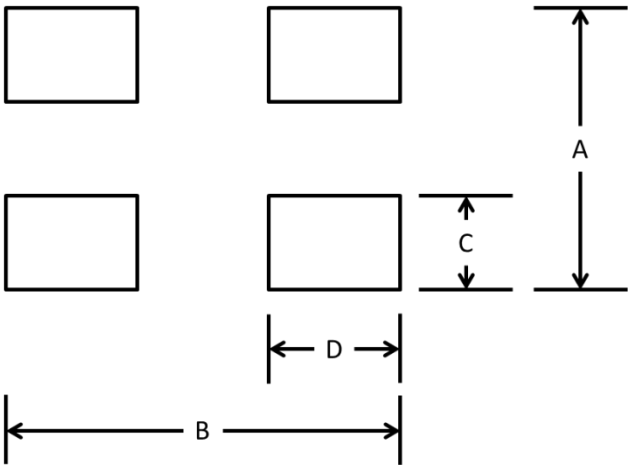
Footprint Library



THH & TCH: millimeters (inches)

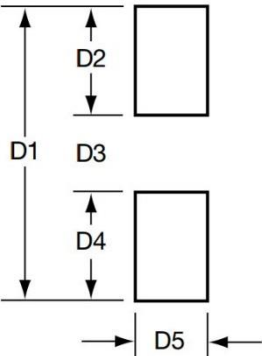


Type	D1	D2	D3	D4	D5
9 Case	14.20 (0.559)	3.30 (0.130)	7.60 (0.299)	3.30 (0.130)	11.00 (0.433)
I Case	13.60 (0.535)	4.20 (0.165)	5.20 (0.205)	4.20 (0.165)	6.10 (0.240)



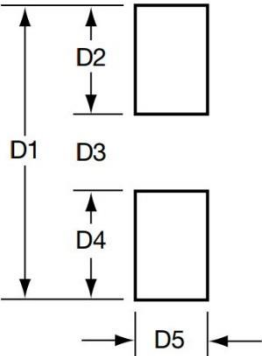
Type	A	B	C	D
Alternative CTC21-D	11.00 (0.433)	14.20 (0.559)	3.60 (0.142)	3.30 (0.130)

REFLOW SOLDER: millimeters (inches)



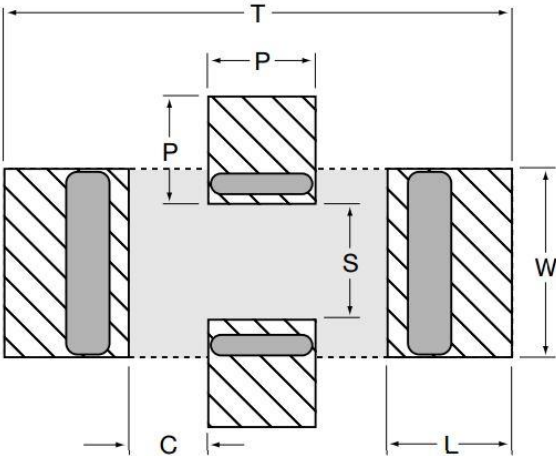
Case Size	D1	D2	D3	D4	D5
01005	0.50 (0.020)	0.18 (0.007)	0.15 (0.006)	0.18 (0.007)	0.20 (0.008)
0201	0.85 (0.033)	0.30 (0.012)	0.25 (0.010)	0.30 (0.012)	0.35 (0.014)
0402	1.70 (0.067)	0.60 (0.024)	0.50 (0.020)	0.60 (0.024)	0.50 (0.020)
0603	2.30 (0.091)	0.80 (0.031)	0.70 (0.028)	0.80 (0.031)	0.75 (0.030)
0605	4.50 (0.177)	1.30 (0.051)	1.88 (0.074)	1.30 (0.051)	3.33 (0.131)
0805	3.00 (0.118)	1.00 (0.039)	1.00 (0.039)	1.00 (0.039)	1.25 (0.049)
1206	4.00 (0.157)	1.00 (0.039)	2.00 (0.079)	1.00 (0.039)	1.60 (0.063)
1210	4.00 (0.157)	1.00 (0.039)	2.00 (0.079)	1.00 (0.039)	2.50 (0.098)
1808	5.60 (0.220)	1.00 (0.039)	3.60 (0.142)	1.00 (0.039)	2.00 (0.079)
1812	5.60 (0.220)	1.00 (0.039)	3.60 (0.142)	1.00 (0.039)	3.00 (0.118)
1825	5.60 (0.220)	1.00 (0.039)	3.60 (0.142)	1.00 (0.039)	6.35 (0.250)
2010	5.14 (0.202)	1.27 (0.050)	2.60 (0.102)	1.27 (0.050)	1.47 (0.058)
2114	6.65 (0.262)	2.00 (0.079)	2.65 (0.104)	2.00 (0.079)	3.00 (0.118)
2220	6.60 (0.260)	1.00 (0.039)	4.60 (0.181)	1.00 (0.039)	5.00 (0.197)
2225	6.60 (0.260)	1.00 (0.039)	4.60 (0.181)	1.00 (0.039)	6.35 (0.250)
3220	11.90 (0.469)	3.90 (0.154)	4.10 (0.161)	3.90 (0.154)	3.90 (0.154)

WAVE SOLDER: millimeters (inches)



Case Size	D1	D2	D3	D4	D5
0603	3.10 (0.12)	1.20 (0.05)	0.70 (0.03)	1.20 (0.05)	0.75 (0.03)
0805	4.00 (0.15)	1.50 (0.06)	1.00 (0.04)	1.50 (0.06)	1.25 (0.05)
1206	5.00 (0.19)	1.50 (0.06)	2.00 (0.09)	1.50 (0.06)	1.60 (0.06)

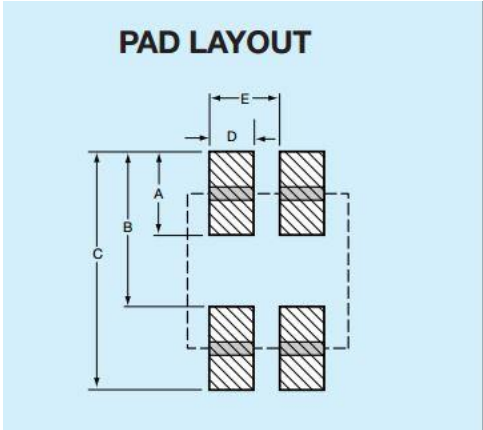
FEEDTHRU: millimeters (inches)



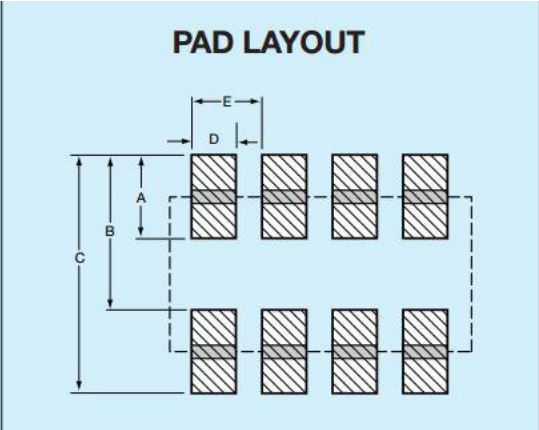
Case Size	T	P	S	W	L	C
W2F/W2H	3.45 (0.136)	0.51 (0.020)	0.76 (0.030)	1.27 (0.050)	1.02 (0.040)	0.46 (0.018)
W3F	4.54 (0.179)	0.94 (0.037)	1.02 (0.040)	1.65 (0.065)	1.09 (0.043)	0.71 (0.028)

ARRAYS: millimeters (inches)

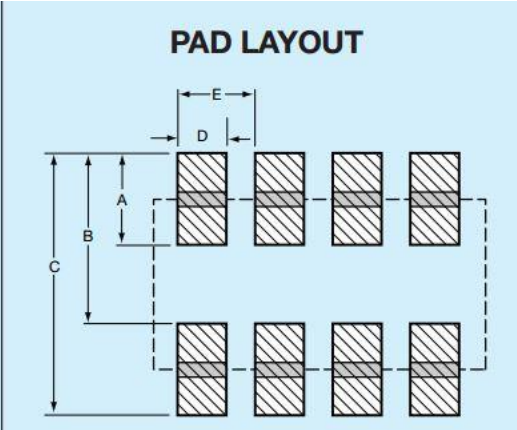
0508 – 2 Element



0508 – 4 Element

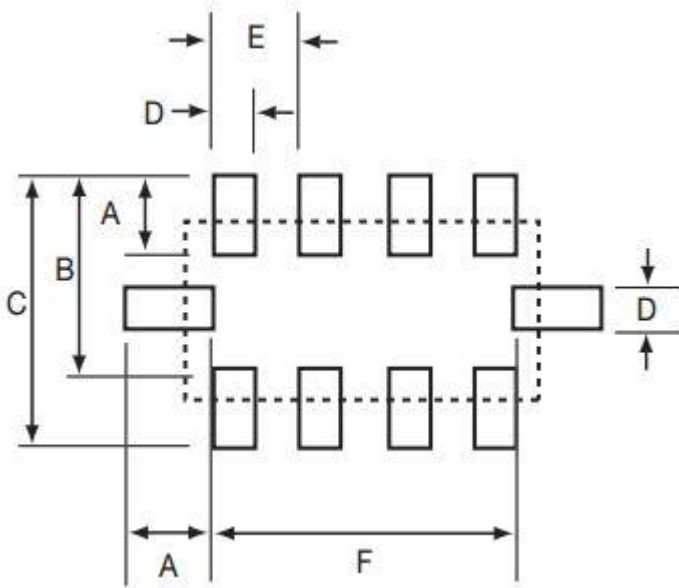


0612 – 4 Element



Case Size	A	B	C	D	E
0508 - 2 Element	0.68 (0.027)	1.32 (0.052)	2.00 (0.079)	0.46 (0.018)	1.00 (0.039)
0508 - 4 Element	0.56 (0.022)	1.32 (0.052)	1.88 (0.074)	0.30 (0.012)	0.50 (0.020)
0612 - 4 Element	0.89 (0.035)	1.65 (0.065)	2.54 (0.100)	0.46 (0.018)	0.76 (0.030)

FEEDTHRU ARRAYS: millimeters (inches)



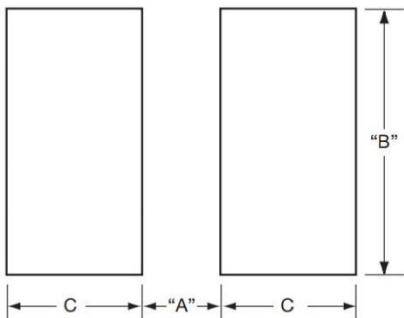
A	B	C	D	E	F
0.60 (0.024)	1.60 (0.064)	2.20 (0.088)	0.35 (0.014)	0.76 (0.030)	2.60 (0.104)

Low Inductance MLCs

Footprint Library

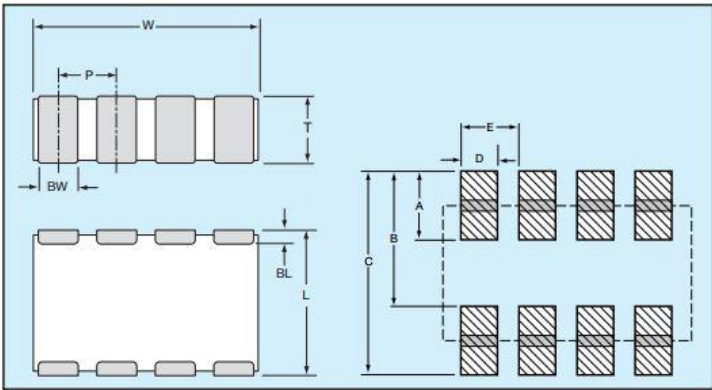


LICC: millimeters (inches)



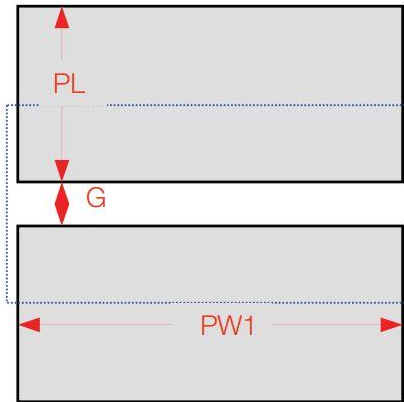
Case Size	A	B	C
0612	0.76 (0.030)	3.05 (0.120)	0.635 (0.025)
0508	0.51 (0.020)	2.03 (0.080)	0.76 (0.030)
0306	0.31 (0.012)	1.52 (0.060)	0.51 (0.020)
0204	0.15 (0.006)	0.75 (0.030)	1.20 (0.047)

IDC: millimeters (inches)



Case Size	A	B	C	D	E
0306	0.38 (0.015)	0.89 (0.035)	1.27 (0.050)	0.20 (0.008)	0.40 (0.015)
0508	0.64 (0.025)	1.27 (0.050)	1.91 (0.075)	0.28 (0.011)	0.50 (0.020)
0612	0.89 (0.035)	1.65 (0.065)	2.54 (0.100)	0.45 (0.018)	0.80 (0.031)

LGA: millimeters (inches)



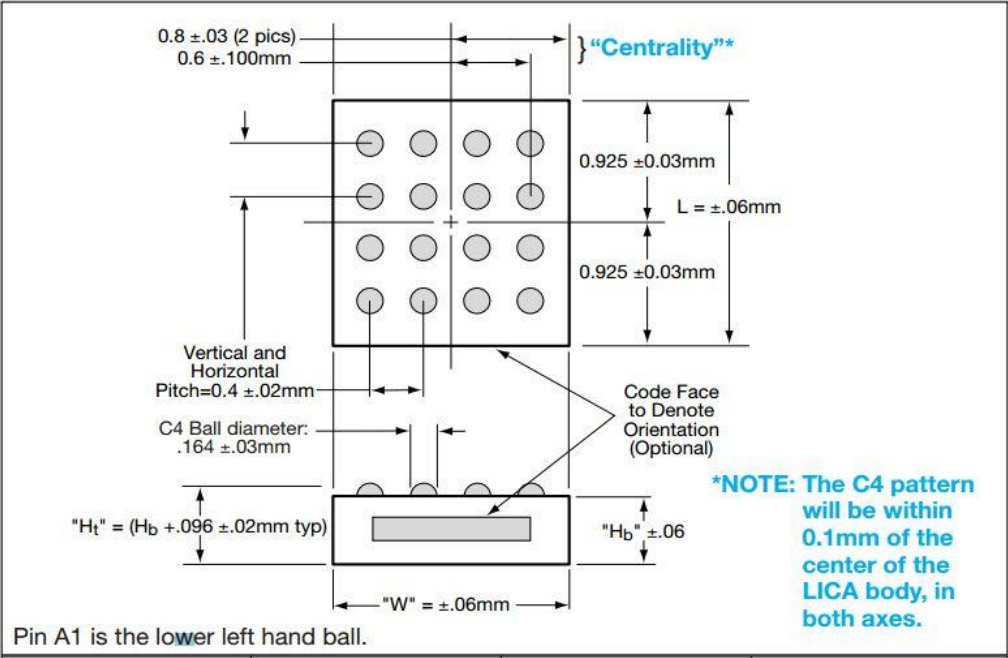
Case Size	PL	PW1	G
LG12 (0204)	0.50 (0.020)	1.00 (0.039)	0.20 (0.008)
LG22 (0306)	0.65 (0.026)	1.50 (0.059)	0.20 (0.008)
LGC2 (0805)	1.25 (0.049)	1.40 (0.055)	0.20 (0.008)

Low Inductance MLCs

Footprint Library



LICA: millimeters (inches)

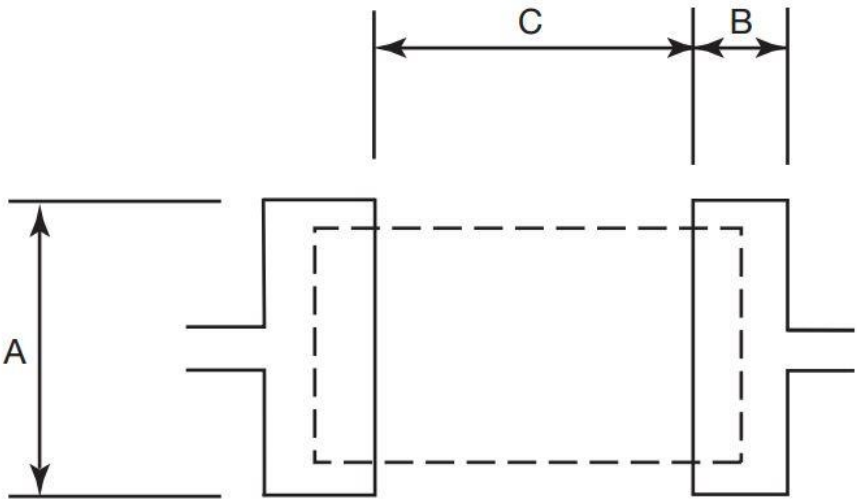


Chip Film Capacitors

Footprint Library

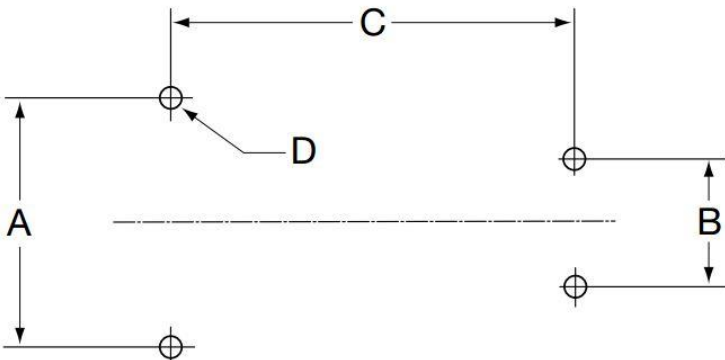


CHIP FILM: millimeters (inches)



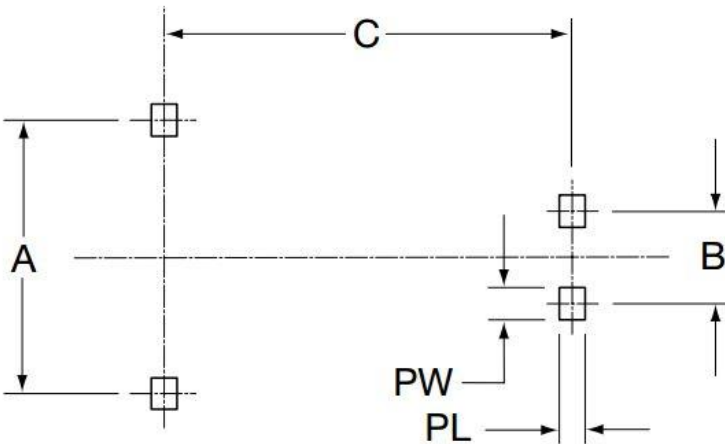
Size Code	Case Size	A	B	C
01	1206	1.30 (0.051)	1.30 (0.051)	2.20 (0.087)
02	1210	2.00 (0.079)	1.30 (0.051)	2.20 (0.087)
03	1812	3.00 (0.118)	1.50 (0.059)	3.50 (0.137)
04	2220	5.00 (0.195)	1.90 (0.075)	4.50 (0.178)
05	2824	6.00 (0.234)	2.50 (0.098)	5.70 (0.224)
16	4030	7.50 (0.295)	3.00 (0.118)	8.00 (0.315)
17	5040	11.2 (0.441)	3.50 (0.137)	10.3 (0.406)
18	6064	14.6 (0.575)	3.60 (0.147)	12.6 (0.496)
95	2840	11.2 (0.440)	2.50 (0.098)	5.70 (0.224)

A- AND H-LEAD: millimeters (inches)



Case Size	A ±0.05 (0.002)	B ±0.05 (0.002)	C ±0.05 (0.002)	D ±0.10 (0.004)
BZ01	17.25 (0.679)	8.90 (0.350)	28.00 (1.102)	Ø1.40 (0.055)
BZ02	30.25 (1.191)	8.90 (0.350)	48.00 (1.890)	Ø1.40 (0.055)
BZ05	15.25 (0.600)	8.90 (0.350)	19.00 (0.748)	Ø1.40 (0.055)

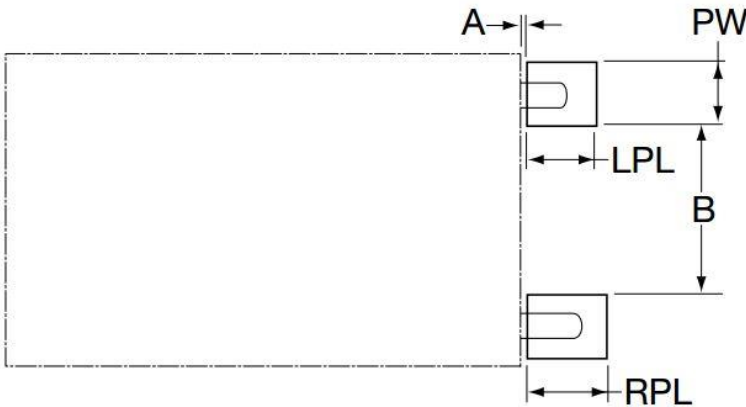
L-LEAD: millimeters (inches)



Case Size	A ±0.10 (0.004)	B ±0.10 (0.004)	C ±0.10 (0.004)	PL ±0.20 (0.008)	PW ±0.20 (0.008)
BZ01	19.20 (0.776)	10.80 (0.425)	28.00 (1.102)	3.00 (0.118)	3.70 (0.146)
BZ02	32.20 (1.268)	10.80 (0.425)	48.00 (1.890)	3.20 (0.126)	3.70 (0.146)

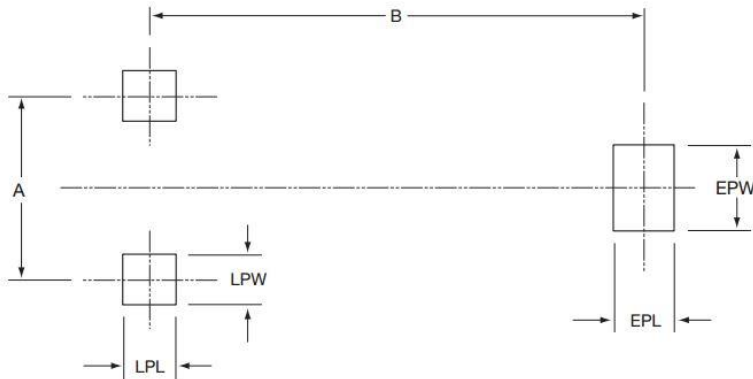


N-LEAD: millimeters (inches)



Case Size	A ±0.50 (0.020)	B ±0.10 (0.004)	PW ±0.10 (0.004)	LPL ±0.10 (0.004)	RPL ±0.10 (0.004)
BZ01	0.50 (0.020)	9.50 (0.374)	3.20 (0.126)	3.50 (0.138)	3.50 (0.138)
BZ05	1.00 (0.039)	5.90 (0.232)	4.10 (0.161)	2.50 (0.098)	3.50 (0.138)
BZ09	1.00 (0.039)	5.90 (0.232)	4.10 (0.161)	2.50 (0.098)	3.50 (0.138)

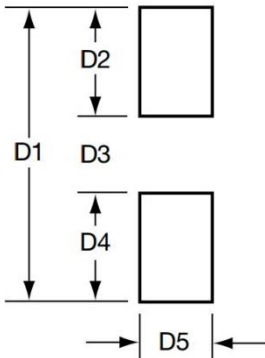
S-LEAD: millimeters (inches)



Case Size	A ±0.10 (0.004)	B ±0.10 (0.004)	EPL ±0.10 (0.004)	EPW ±0.10 (0.004)	LPL ±0.10 (0.004)	LPW ±0.10 (0.004)
BZ01	13.00 (0.512)	35.10 (1.382)	4.50 (0.177)	6.00 (0.236)	5.80 (0.228)	3.50 (0.138)
BZ05	10.00 (0.394)	25.00 (0.984)	3.00 (0.118)	4.50 (0.177)	2.90 (0.114)	4.50 (0.177)
BZ09	10.00 (0.394)	22.00 (0.886)	3.00 (0.118)	4.50 (0.177)	2.90 (0.114)	4.50 (0.177)



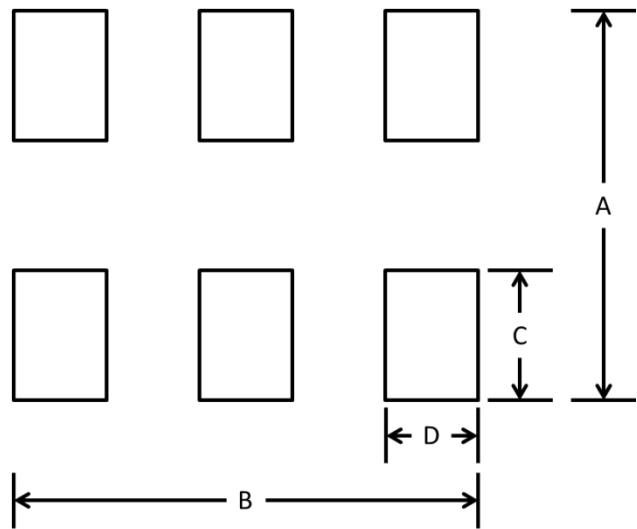
TVS DIODES: millimeters (inches)



Case Size	D1	D2	D3	D4	D5
DO-214AC (SMA)	5.49 (0.216)	1.27 (0.050)	2.10 (0.083)	1.27 (0.050)	1.47 (0.058)
DO-214AA (SMB)	5.59 (0.220)	1.27 (0.050)	2.65 (0.104)	1.27 (0.050)	2.10 (0.083)
DO-214AB (SMC)	8.12 (0.320)	1.52 (0.060)	4.69 (0.185)	1.52 (0.060)	3.07 (0.121)

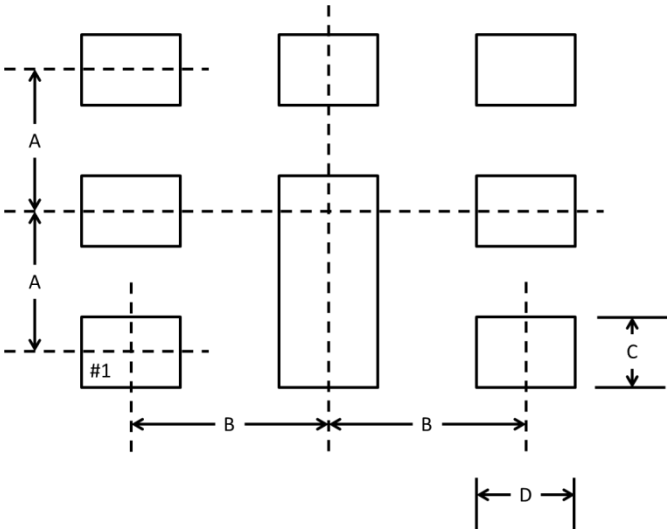


MLO DIPLEXERS: millimeters (inches)



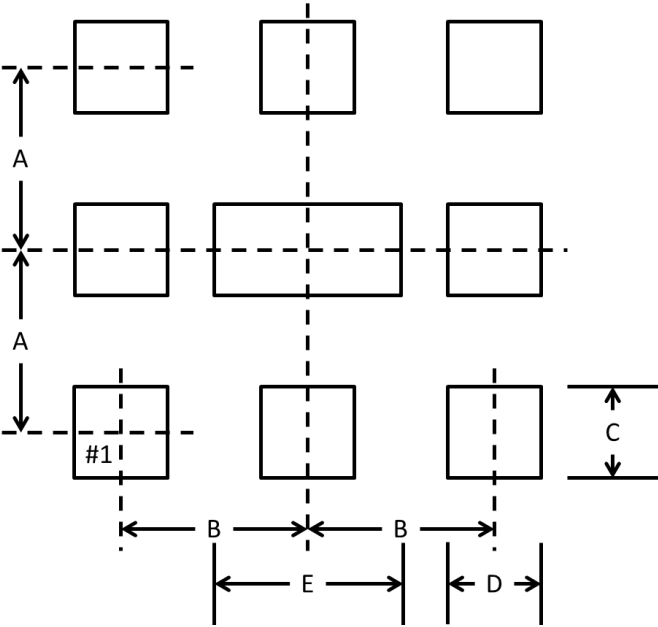
Size	A	B	C	D
0603	0.76 (0.030)	1.47 (0.058)	0.15 (0.006)	0.45 (0.018)
0805	1.20 (0.047)	1.72 (0.068)	0.25 (0.010)	0.44 (0.017)

SAW DUPLEXERS: SD18, mm (in.)



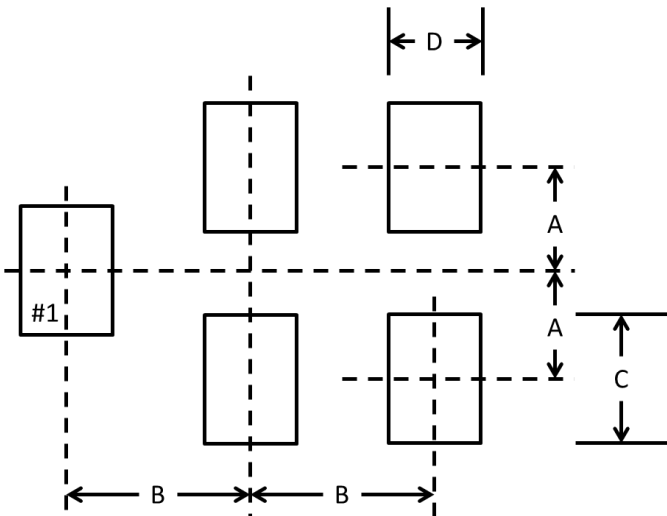
Case Style	A	B	C	D
SD18	0.50 (0.020)	0.65 (0.026)	0.25 (0.010)	0.35 (0.014)

SAW DUPLEXERS: SD20, SD25, mm (in.)



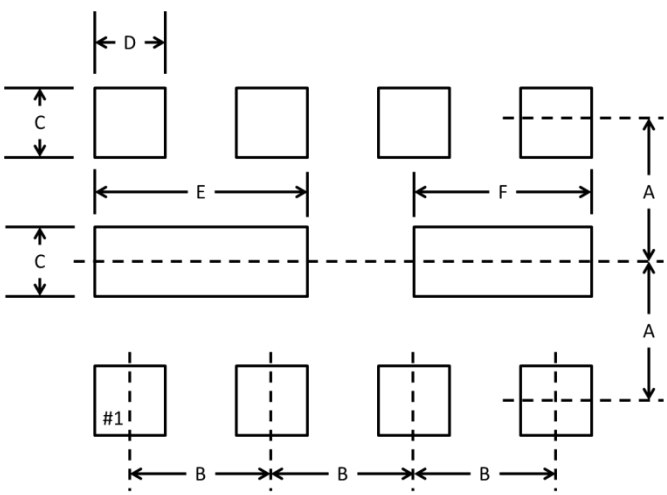
Case Style	A	B	C	D	E
SD20	0.58 (0.023)	0.75 (0.030)	0.33 (0.013)	0.29 (0.011)	0.72 (0.028)
SD25	0.70 (0.028)	0.95 (0.037)	0.40 (0.016)	0.40 (0.016)	0.90 (0.035)

SAW FILTERS: SF14, mm (in.)



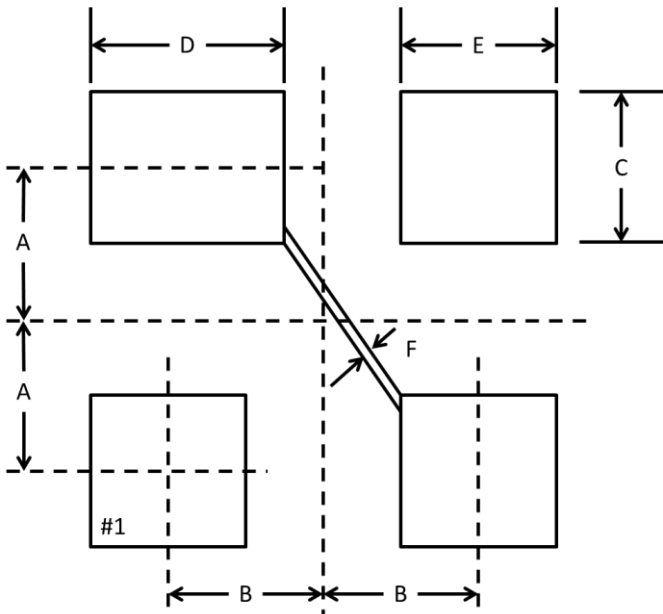
Case Style	A	B	C	D
SF14	0.2875 (0.011)	0.50 (0.020)	0.325 (0.013)	0.25 (0.010)

SAW FILTERS: SF15, mm (in.)



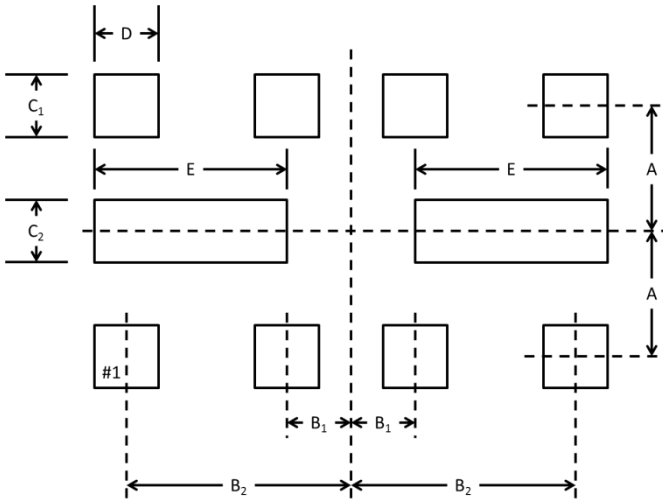
Case Style	A	B	C	D	E	F
SF15	0.385 (0.015)	0.39 (0.015)	0.18 (0.007)	0.18 (0.007)	0.49 (0.019)	0.39 (0.015)

SAW FILTERS: SF16, mm (in.)



Case Style	A	B	C	D	E	F
SF16	0.40 (0.016)	0.50 (0.020)	0.40 (0.016)	0.60 (0.024)	0.40 (0.016)	0.25 (0.010)

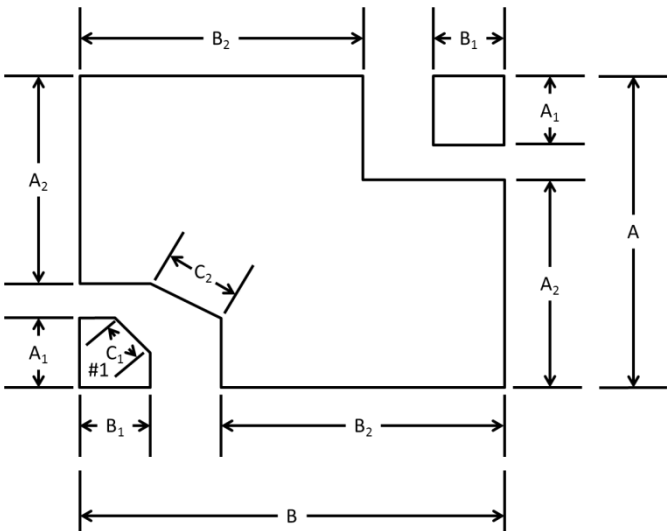
SAW FILTERS: SF18, mm (in.)



Case Style	A	B ₁	B ₂	C ₁	C ₂	D	E
SF18	0.485 (0.019)	0.235 (0.009)	0.705 (0.028)	0.24 (0.009)	0.25 (0.010)	0.235 (0.009)	0.60 (0.024)



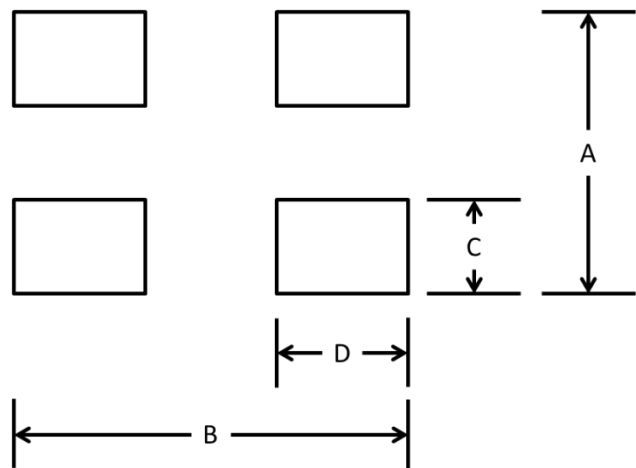
SAW FILTERS: SF20, mm (in.)



Case Style	A	A ₁	A ₂	B	B ₁	B ₂	C ₁	C ₂
SF20	1.40 (0.055)	0.30 (0.012)	0.90 (0.035)	1.80 (0.071)	0.30 (0.012)	1.20 (0.047)	0.10 (0.004)	0.20 (0.008)

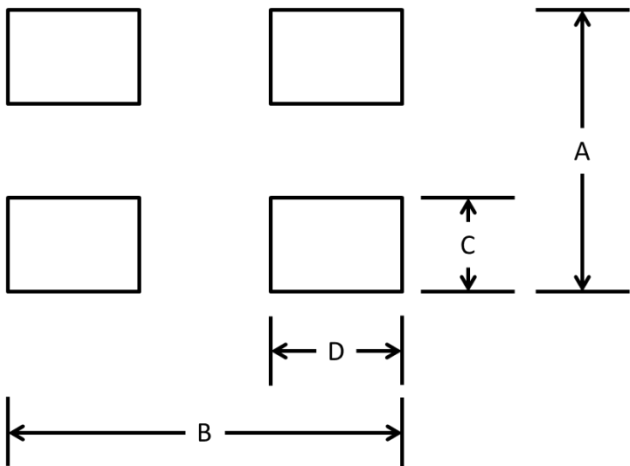


THIN FILM LOW PASS FILTERS: mm (in.)



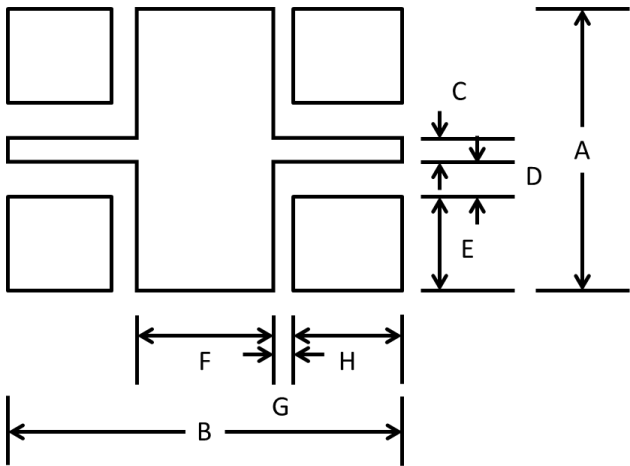
Case Size	A	B	C	D
LP0402	0.55 (0.022)	1.11 (0.044)	0.20 (0.008)	0.30 (0.012)
LP0603	1.10 (0.043)	1.75 (0.069)	0.40 (0.016)	0.50 (0.020)
LP0805	2.25 (0.089)	2.33 (0.092)	0.80 (0.031)	0.87 (0.034)

DIRECTIONAL COUPLERS: mm (in.)



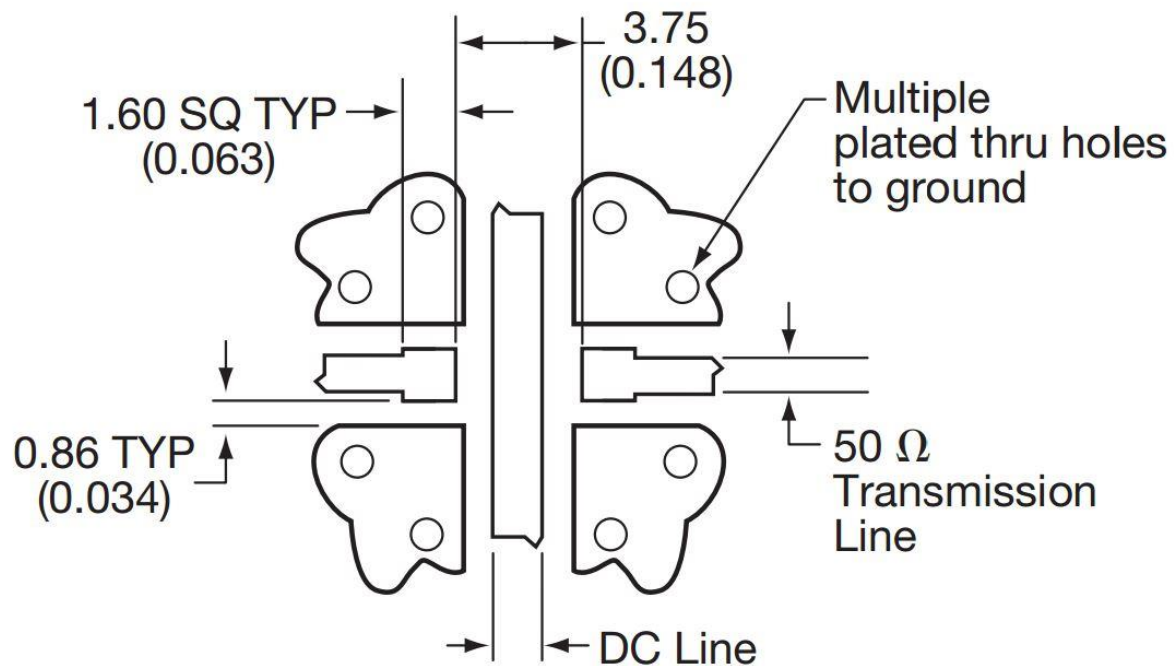
Case Size	A	B	C	D
CP0302	0.65 (0.026)	0.80 (0.031)	0.20 (0.008)	0.30 (0.012)
CP0402	0.55 (0.022)	1.15 (0.045)	0.20 (0.008)	0.31 (0.012)
CP0603	1.08 (0.043)	1.85 (0.073)	0.40 (0.016)	0.70 (0.028)
CP0805	2.25 (0.089)	2.33 (0.092)	0.80 (0.031)	0.87 (0.034)

3DB COUPLERS: mm (in.)

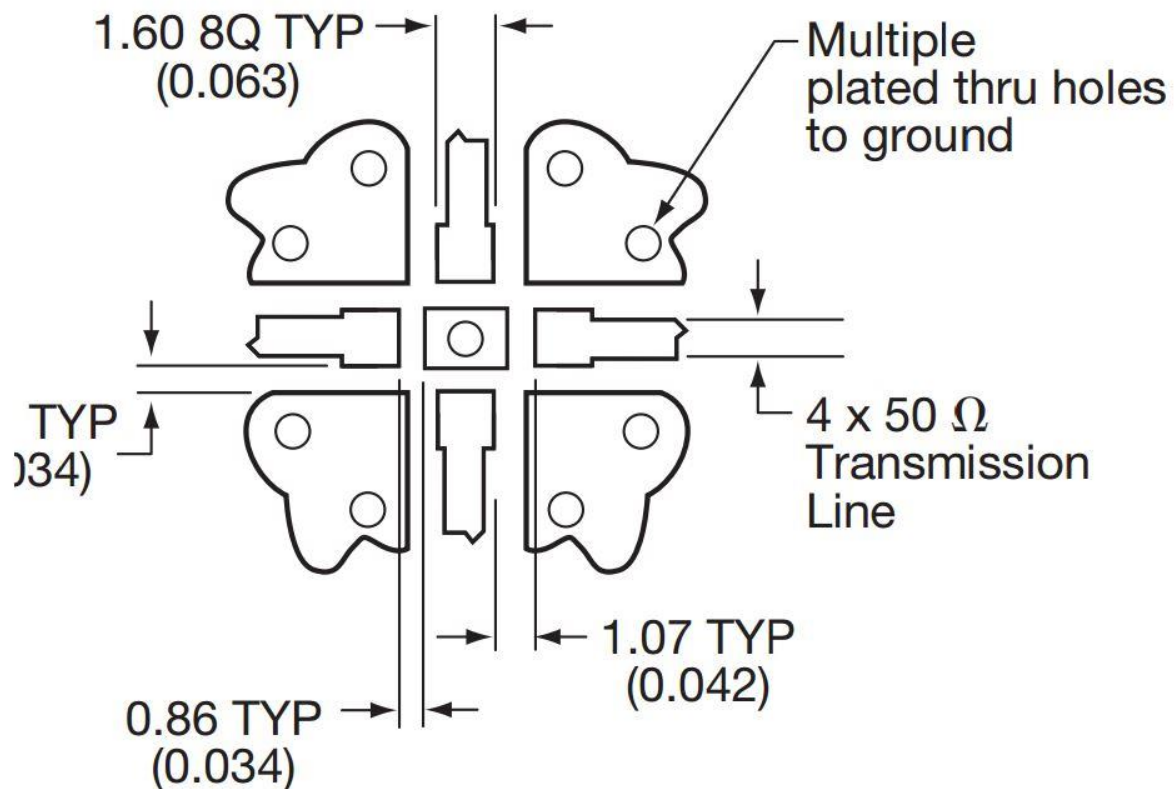


Case Size	A	B	C	D	E	F	G	H
DB0805	1.76 (0.069)	2.24 (0.088)	0.34 (0.014)	0.15 (0.006)	0.56 (0.022)	0.40 (0.016)	0.15 (0.006)	0.77 (0.030)
PC2025	5.43 (0.214)	6.70 (0.264)	1.93 (0.076)	0.61 (0.024)	1.14 (0.045)	3.20 (0.126)	0.61 (0.024)	1.14 (0.045)

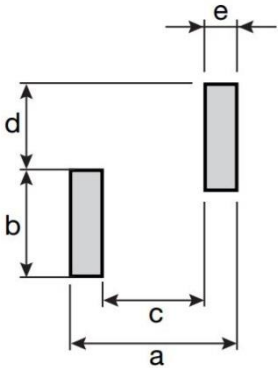
RF-DC CROSSOVER: mm (in.)



RF-RF CROSSOVER: mm (in.)

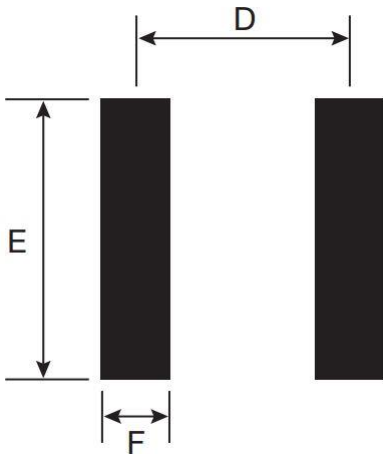


AL SERIES AIR CORE INDUCTORS: mm (in.)



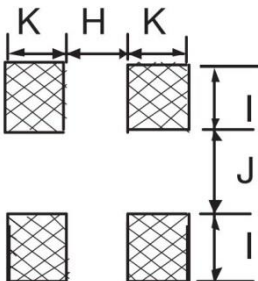
Part Number	A	B	C	D	E
AL05A	2.62 (0.103)	2.46 (0.097)	1.04 (0.041)	1.02 (0.040)	0.79 (0.031)
AL05B	4.45 (0.175)	2.46 (0.097)	2.87 (0.113)	1.02 (0.040)	0.79 (0.031)
AL12A	4.19 (0.165)	3.30 (0.130)	1.65 (0.065)	2.79 (0.110)	1.27 (0.050)
AL12B	7.24 (0.285)	3.30 (0.130)	4.70 (0.185)	2.79 (0.110)	1.27 (0.050)
AL016	5.80 (0.228)	5.16 (0.203)	2.85 (0.112)	2.62 (0.103)	1.48 (0.058)
AL023	10.00 (0.394)	4.70 (0.185)	5.95 (0.234)	2.42 (0.095)	2.04 (0.080)

AS SERIES AIR CORE INDUCTORS: mm (in.)



Part Number	D	E	F
AS0605N5*TR	0.962 (0.038)	2.60 (0.102)	0.51 (0.020)
AS0606N0*TR	0.99 (0.390)	2.60 (0.102)	0.51 (0.020)
AS0608N9*TR	1.27 (0.050)	2.60 (0.102)	0.51 (0.020)
AS0612N3*TR	1.63 (0.064)	2.60 (0.102)	0.51 (0.020)
AS0615N7*TR	1.96 (0.070)	2.60 (0.102)	0.51 (0.020)
AS0619N4*TR	2.29 (0.090)	2.60 (0.102)	0.51 (0.020)
AS0706N9*TR	1.02 (0.040)	2.60 (0.102)	0.51 (0.020)
AS0710N2*TR	1.32 (0.052)	2.60 (0.102)	0.51 (0.020)
AS0711N2*TR	1.24 (0.049)	2.60 (0.102)	0.51 (0.020)
AS0713N7*TR	1.57 (0.062)	2.60 (0.102)	0.51 (0.020)
AS0717N0*TR	1.93 (0.076)	2.60 (0.102)	0.51 (0.020)
AS0722N0*TR	2.29 (0.090)	2.60 (0.102)	0.51 (0.020)
AS0808N1*TR	1.12 (0.044)	2.80 (0.110)	0.64 (0.025)
AS0812N0*TR	1.45 (0.570)	2.80 (0.110)	0.64 (0.025)
AS0814N7*TR	1.24 (0.049)	2.80 (0.110)	0.64 (0.025)
AS0816N6*TR	1.83 (0.072)	2.80 (0.110)	0.64 (0.025)
AS0821N5*TR	2.18 (0.086)	2.80 (0.110)	0.64 (0.025)
AS0823N0*TR	1.90 (0.075)	2.80 (0.110)	0.64 (0.025)
AS0825N0*TR	2.57 (0.101)	2.80 (0.110)	0.64 (0.025)
AS0827N3*TR	2.57 (0.101)	2.80 (0.110)	0.64 (0.025)

COMMON MODE CHOKE INDUCTORS: mm (in.)



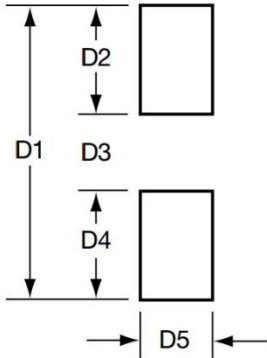
Type	H	I	J	K
LCCM0805	0.80 (0.031)	0.40 (0.016)	0.40 (0.016)	0.90 (0.035)
LCCM1206	1.60 (0.063)	0.60 (0.024)	0.40 (0.016)	1.05 (0.041)

Inductors

Footprint Library

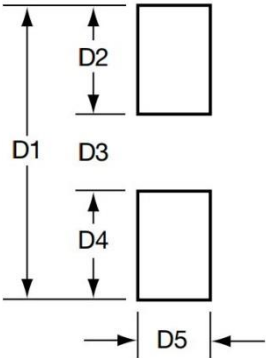


SMD POWER INDUCTORS: mm (in.)



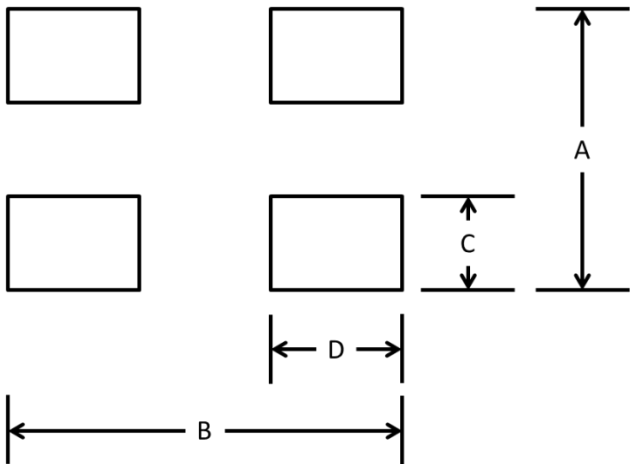
Type	D1	D2	D3	D4	D5
0202	2.15 (0.085)	0.70 (0.028)	0.75 (0.030)	0.70 (0.028)	2.00 (0.079)
02A2	2.60 (0.102)	0.90 (0.035)	0.80 (0.031)	0.90 (0.035)	2.00 (0.079)
02B2	3.20 (0.126)	1.20 (0.047)	0.80 (0.031)	1.20 (0.047)	2.50 (0.098)
0302	4.00 (0.157)	1.50 (0.059)	1.00 (0.039)	1.50 (0.059)	2.00 (0.079)
03A2	4.00 (0.157)	1.50 (0.059)	1.00 (0.039)	1.50 (0.059)	2.00 (0.079)
0303	3.00 (0.118)	0.80 (0.032)	1.40 (0.055)	0.80 (0.032)	2.70 (0.106)
03A3	3.00 (0.118)	0.80 (0.032)	1.40 (0.055)	0.80 (0.032)	2.70 (0.106)
03B3	3.00 (0.118)	0.80 (0.032)	1.40 (0.055)	0.80 (0.032)	2.70 (0.106)
0403	5.20 (0.205)	2.00 (0.079)	1.20 (0.047)	2.00 (0.079)	3.00 (0.118)
0404	4.00 (0.157)	1.20 (0.047)	1.60 (0.063)	1.20 (0.047)	3.70 (0.146)
04A4	4.00 (0.157)	1.20 (0.047)	1.60 (0.063)	1.20 (0.047)	3.70 (0.146)
04B4	4.00 (0.157)	1.20 (0.047)	1.60 (0.063)	1.20 (0.047)	3.70 (0.146)
04C4	4.55 (0.179)	0.775 (0.031)	3.00 (0.118)	0.775 (0.031)	1.90 (0.075)
0405	5.50 (0.217)	1.50 (0.059)	2.50 (0.098)	1.50 (0.059)	2.20 (0.087)
0504	5.00 (0.197)	1.75 (0.069)	1.50 (0.059)	1.75 (0.069)	4.50 (0.177)
0505	5.40 (0.213)	1.60 (0.063)	2.20 (0.087)	1.60 (0.063)	4.70 (0.185)
05B5	5.40 (0.213)	1.60 (0.063)	2.20 (0.087)	1.60 (0.063)	4.70 (0.185)
05C5	5.70 (0.224)	0.90 (0.035)	3.90 (0.154)	0.90 (0.035)	1.90 (0.075)
05D5	5.40 (0.213)	1.60 (0.063)	2.20 (0.087)	1.60 (0.063)	4.70 (0.185)
05A6	7.00 (0.276)	2.00 (0.079)	3.00 (0.118)	2.00 (0.079)	2.50 (0.098)
0506	7.00 (0.276)	2.00 (0.079)	3.00 (0.118)	2.00 (0.079)	2.50 (0.098)
0605	6.00 (0.236)	2.00 (0.079)	2.00 (0.079)	2.00 (0.079)	5.00 (0.197)
0606	6.30 (0.248)	1.60 (0.063)	3.10 (0.122)	1.60 (0.063)	5.70 (0.224)
06A6	6.30 (0.248)	1.60 (0.063)	3.10 (0.122)	1.60 (0.063)	5.70 (0.224)
06B6	6.30 (0.248)	1.60 (0.063)	3.10 (0.122)	1.60 (0.063)	5.70 (0.224)
06C6	6.30 (0.248)	1.60 (0.063)	3.10 (0.122)	1.60 (0.063)	5.70 (0.224)
06D6	6.30 (0.248)	1.60 (0.063)	3.10 (0.122)	1.60 (0.063)	5.70 (0.224)
0704	6.86 (0.270)	1.40 (0.055)	4.06 (0.160)	1.40 (0.055)	3.56 (0.140)
0705	8.00 (0.315)	2.00 (0.079)	4.00 (0.157)	2.00 (0.079)	4.00 (0.157)
0707	8.70 (0.343)	2.50 (0.098)	3.70 (0.146)	2.50 (0.098)	3.50 (0.138)
07B7	8.70 (0.343)	2.50 (0.098)	3.70 (0.146)	2.50 (0.098)	3.50 (0.138)
07A7	8.70 (0.343)	2.50 (0.098)	3.70 (0.146)	2.50 (0.098)	3.50 (0.138)
07C7	8.70 (0.343)	2.50 (0.098)	3.70 (0.146)	2.50 (0.098)	3.50 (0.138)
07D7	8.00 (0.315)	3.20 (0.126)	1.60 (0.063)	3.20 (0.126)	8.00 (0.315)
07E7	7.60 (0.299)	2.00 (0.079)	3.60 (0.142)	2.00 (0.079)	2.20 (0.087)
0808	7.40 (0.291)	1.80 (0.071)	3.80 (0.150)	1.80 (0.071)	7.50 (0.188)
08D8	10.1 (0.398)	2.00 (0.079)	6.10 (0.240)	2.00 (0.079)	2.80 (0.110)
08E8	10.1 (0.398)	2.00 (0.079)	6.10 (0.240)	2.00 (0.079)	2.80 (0.110)
08G8	8.00 (0.315)	3.00 (0.118)	2.00 (0.079)	3.00 (0.118)	7.50 (0.295)
0906	9.08 (0.357)	2.00 (0.079)	5.08 (0.200)	2.00 (0.079)	4.06 (0.160)
1009	10.00 (0.394)	3.75 (0.148)	2.50 (0.098)	3.75 (0.148)	9.50 (0.374)
10F9	10.00 (0.394)	3.75 (0.148)	2.50 (0.098)	3.75 (0.148)	9.50 (0.374)
1010	10.6 (0.417)	2.50 (0.099)	5.60 (0.220)	2.50 (0.099)	3.20 (0.125)
1011	13.00 (0.512)	3.50 (0.138)	6.00 (0.236)	3.50 (0.138)	4.00 (0.157)
101D	10.50 (0.413)	1.60 (0.063)	7.30 (0.287)	1.60 (0.063)	3.20 (0.126)
101E	10.50 (0.413)	1.60 (0.063)	7.30 (0.287)	1.60 (0.063)	3.20 (0.126)
1212	13.00 (0.512)	3.00 (0.118)	7.00 (0.276)	3.00 (0.118)	6.00 (0.236)
121G	13.00 (0.512)	3.00 (0.118)	7.00 (0.276)	3.00 (0.118)	6.00 (0.236)
121J	13.00 (0.512)	3.00 (0.118)	7.00 (0.276)	3.00 (0.118)	6.00 (0.236)
1309	13.21 (0.520)	2.92 (0.115)	7.37 (0.290)	2.92 (0.115)	2.79 (0.110)
1310	13.60 (0.535)	2.30 (0.091)	9.00 (0.344)	2.30 (0.091)	6.50 (0.256)
13A3	13.70 (0.539)	2.90 (0.114)	7.90 (0.311)	2.90 (0.114)	5.00 (0.197)
1313	13.70 (0.539)	2.90 (0.114)	7.90 (0.311)	2.90 (0.114)	5.00 (0.197)
131H	13.20 (0.520)	2.50 (0.099)	8.20 (0.322)	2.50 (0.099)	3.20 (0.126)
131J	13.20 (0.520)	2.50 (0.099)	8.20 (0.322)	2.50 (0.099)	3.20 (0.126)
13B3	13.70 (0.539)	2.90 (0.114)	7.90 (0.311)	2.90 (0.114)	5.00 (0.197)
1913	19.30 (0.760)	3.80 (0.150)	11.70 (0.460)	3.80 (0.150)	8.00 (0.315)
1915	18.29 (0.720)	2.92 (0.115)	12.45 (0.490)	2.92 (0.115)	2.79 (0.110)
2216	22.95 (0.904)	4.30 (0.169)	14.35 (0.565)	4.30 (0.169)	8.64 (0.340)

KHZ RANGE TUNING FORK CRYSTAL UNITS: mm (in.)



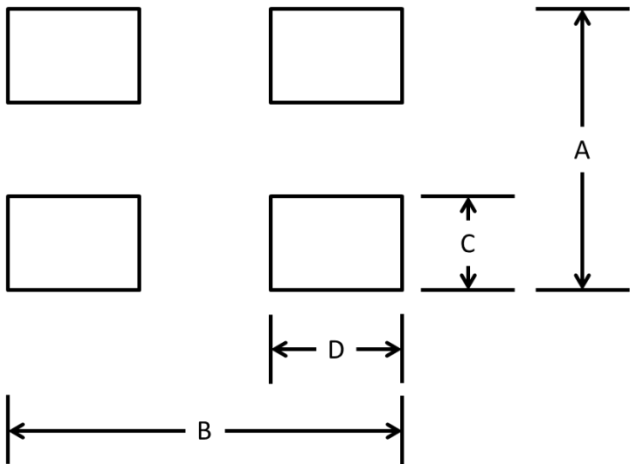
Type	D1	D2	D3	D4	D5
ST2012	2.20 (0.087)	0.70 (0.028)	0.80 (0.031)	0.70 (0.028)	1.40 (0.055)
ST3215	3.60 (0.142)	1.00 (0.039)	1.60 (0.063)	1.00 (0.039)	1.55 (0.061)

KHZ RANGE AT-CUT TYPE CLOCK CRYSTAL OSCILLATOR: mm (in.)



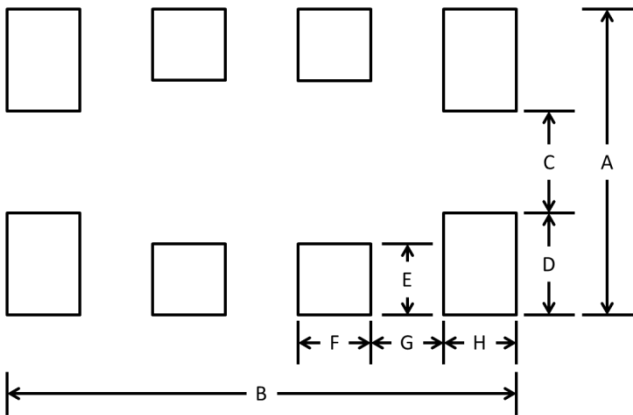
Type	A	B	C	D
KC2520	2.40 (0.094)	2.90 (0.114)	0.95 (0.037)	1.05 (0.041)

KHZ RANGE TUNING FORK CRYSTAL OSCILLATOR: mm (in.)



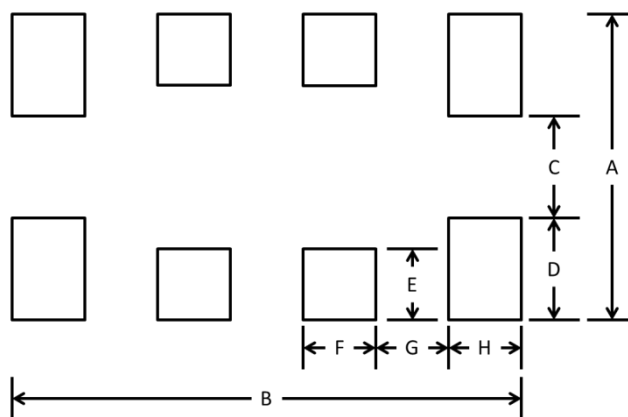
Type	A	B	C	D
KC3215	1.90 (0.075)	3.60 (0.142)	0.80 (0.031)	0.60 (0.024)

KHZ RANGE TUNING FORK TYPE DTCXO: mm (in.)



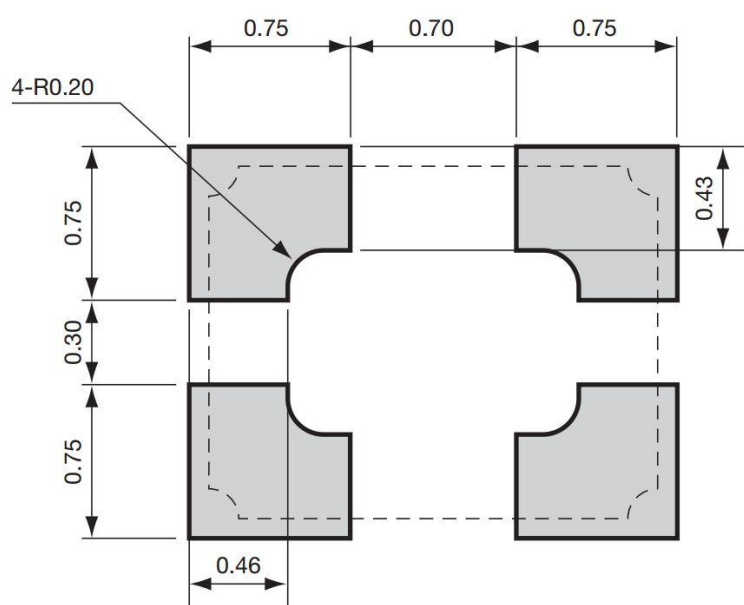
Type	A	B	C	D	E	F	G	H
KT3225	2.80 (0.110)	3.50 (0.138)	1.10 (0.043)	0.85 (0.033)	0.50 (0.020)	0.60 (0.024)	0.40 (0.016)	0.55 (0.022)

REAL TIME CLOCK MODULE: mm (in.)

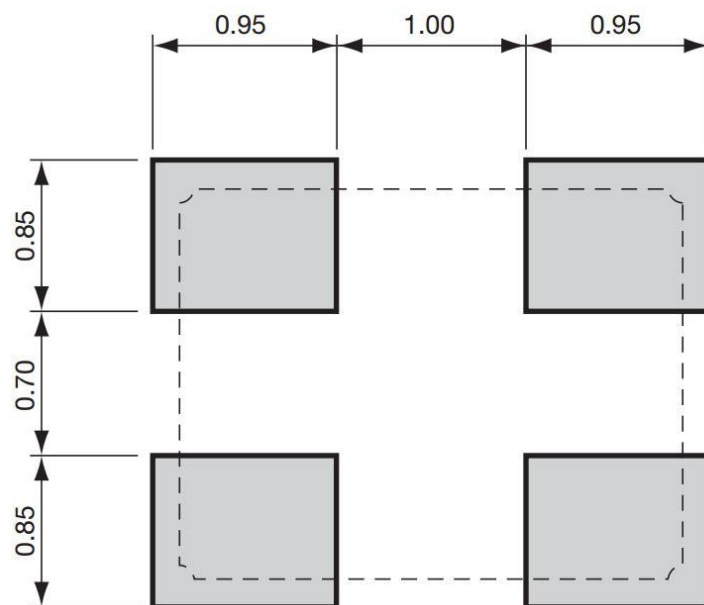


Type	A	B	C	D	E	F	G	H
KR3225	2.80	3.50	1.10	0.85	0.50	0.60	0.40	0.55
	(0.110)	(0.138)	(0.043)	(0.033)	(0.020)	(0.024)	(0.016)	(0.022)

REAL TIME CLOCK MODULE: mm

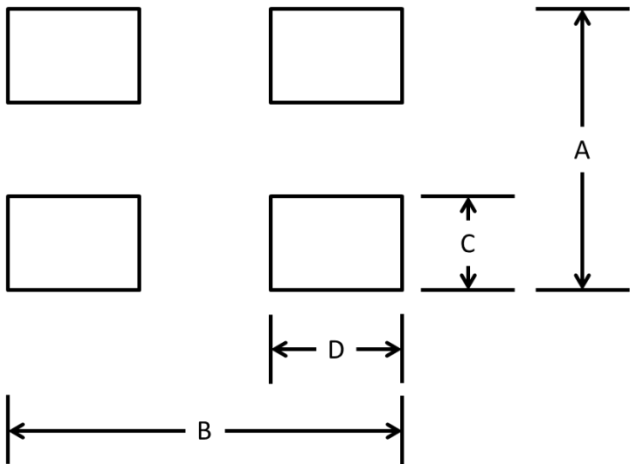


CT2016



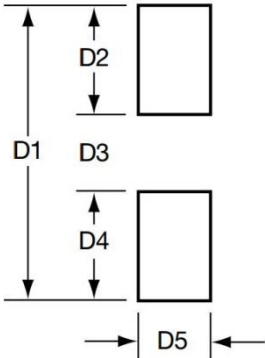
CT2520

MHZ RANGE CRYSTAL UNITS (4 TERMINAL): mm (in.)



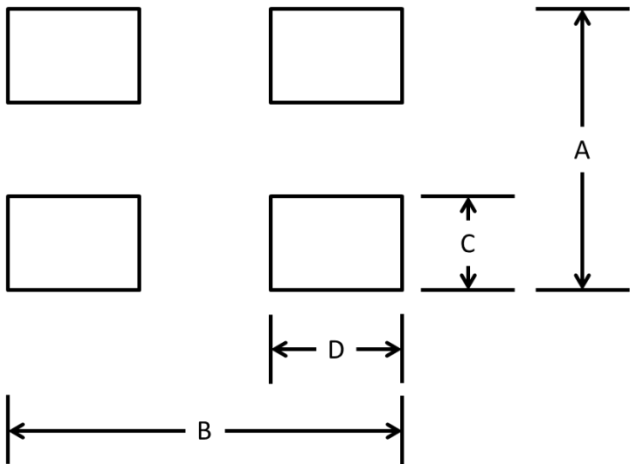
Type	A	B	C	D
CX1210	1.15 (0.045)	1.35 (0.053)	0.45 (0.018)	0.52 (0.020)
CX1612	1.40 (0.055)	1.80 (0.071)	0.55 (0.022)	0.65 (0.026)
CX2016	1.90 (0.075)	2.30 (0.091)	0.80 (0.031)	0.90 (0.035)
CX2520	2.30 (0.091)	2.90 (0.114)	1.00 (0.039)	1.20 (0.047)
CX3225	2.90 (0.114)	3.60 (0.142)	1.05 (0.041)	1.30 (0.051)
CX5032	3.40 (0.134)	5.10 (0.201)	1.30 (0.051)	1.60 (0.063)

MHZ RANGE CRYSTAL UNITS (2 TERMINAL): mm (in.)



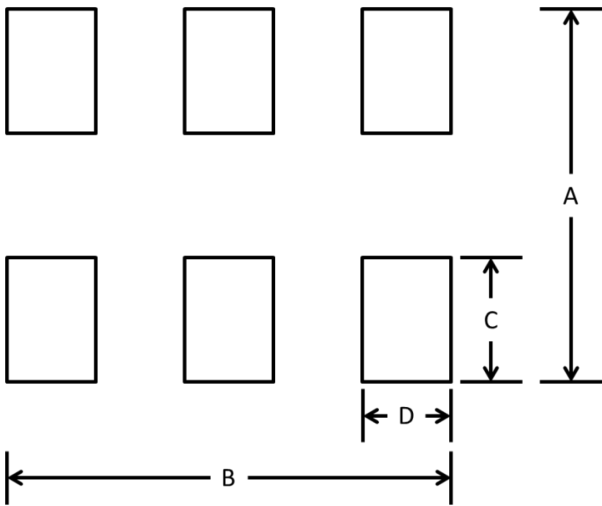
Type	D1	D2	D3	D4	D5
CX3225	3.60 (0.142)	1.60 (0.063)	0.40 (0.016)	1.60 (0.063)	2.60 (0.102)
CX5032	6.00 (0.236)	1.90 (0.075)	2.20 (0.087)	1.90 (0.075)	2.40 (0.094)
CX8045	9.00 (0.354)	2.40 (0.094)	4.20 (0.165)	2.40 (0.094)	2.80 (0.110)

CMOS OUTPUT CLOCK OSCILLATOR: mm (in.)



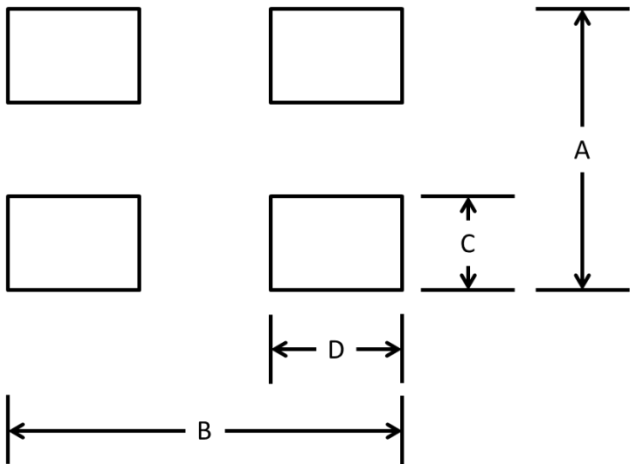
Type	A	B	C	D
KC2016	2.00 (0.079)	2.40 (0.094)	0.80 (0.031)	0.60 (0.024)
KC2520	2.40 (0.094)	2.90 (0.114)	0.95 (0.037)	1.05 (0.041)
KC3225	2.70 (0.106)	3.40 (0.134)	0.95 (0.037)	1.20 (0.047)
KC5032	3.60 (0.142)	4.10 (0.161)	1.40 (0.055)	1.60 (0.063)
KC7050	6.20 (0.244)	6.88 (0.271)	2.00 (0.079)	1.80 (0.071)

LV-PECL/LVDS/HCSL OUTPUT CLOCK OSCILLATOR: mm (in.)



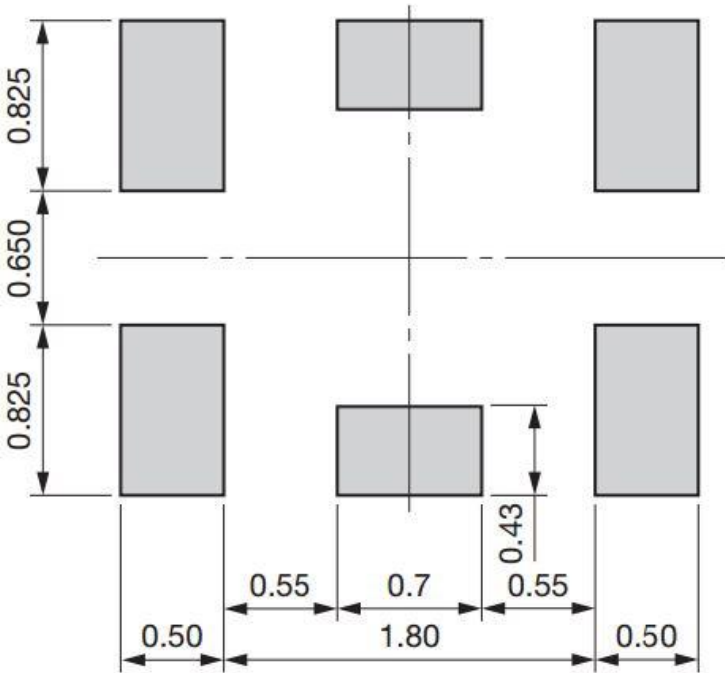
Type	A	B	C	D
KC5032	4.20 (0.165)	3.50 (0.138)	1.60 (0.063)	0.90 (0.035)
KC7050	5.20 (0.205)	6.68 (0.263)	1.60 (0.063)	1.60 (0.063)

RF/GPS TCXO: mm (in.)



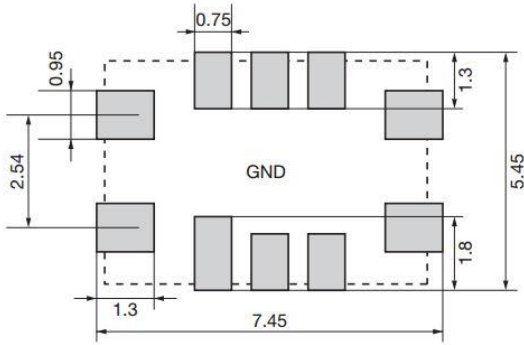
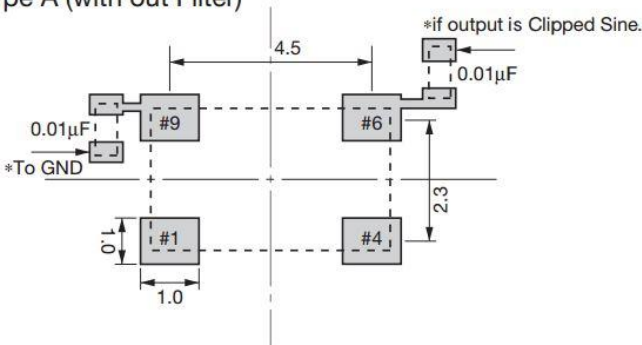
Type	A	B	C	D
KT1612	1.40 (0.055)	1.80 (0.071)	0.50 (0.020)	0.30 (0.012)
KT2016	2.00 (0.079)	2.40 (0.094)	0.80 (0.031)	0.60 (0.024)
KT3225	2.80 (0.110)	3.43 (0.135)	1.20 (0.047)	0.80 (0.031)

KT2520 mm

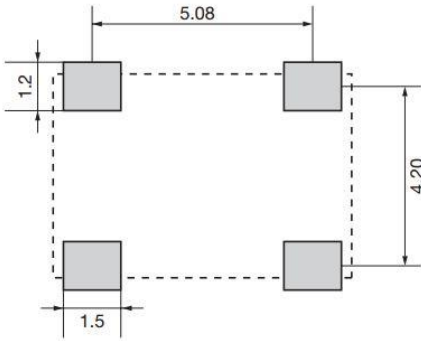
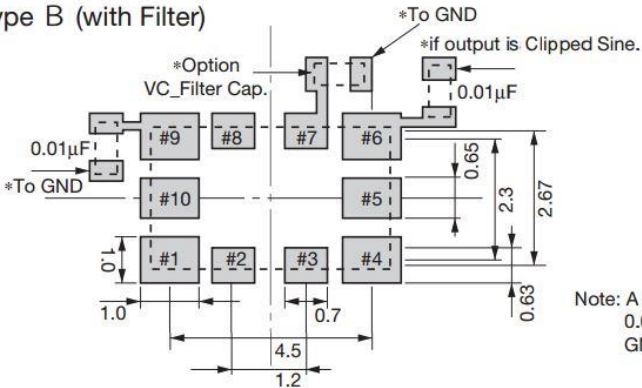


FEMTOCELL/STRATUM3 TCXO: mm

Type A (with out Filter)



Type B (with Filter)

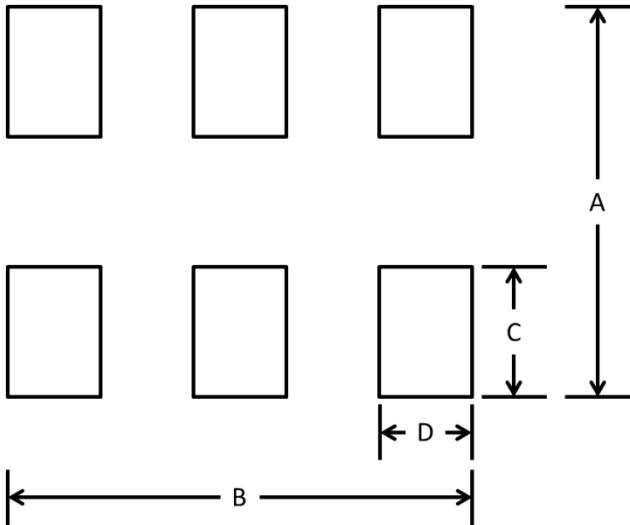


Note: A capacitor of value 0.01µF between Vcc and GND is recommended.

KT5032

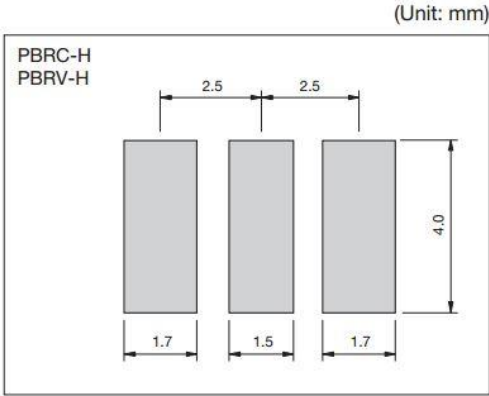
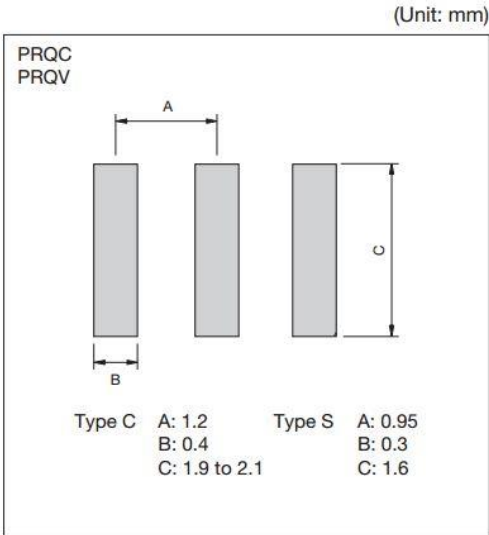
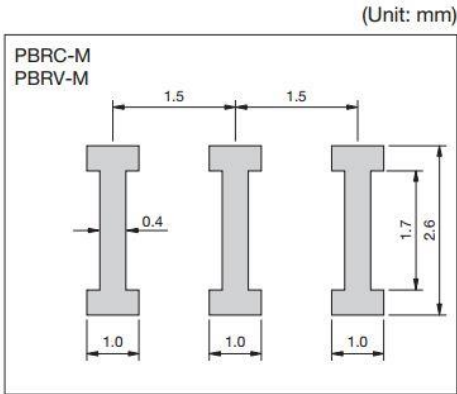
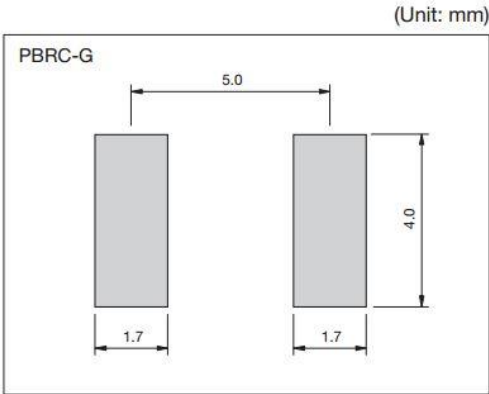
KT7050

VOLTAGE CONTROLLED CRYSTAL OSCILLATOR: mm (in.)

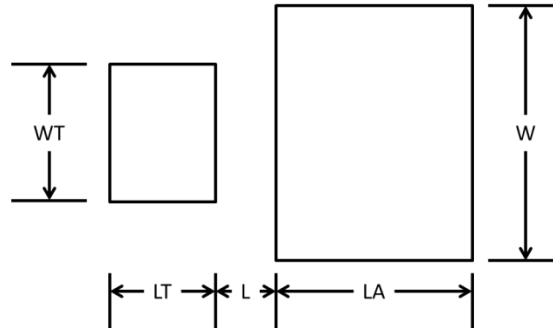


Type	A	B	C	D
KT5032	4.20 (0.165)	3.50 (0.138)	1.60 (0.063)	0.90 (0.035)
KT7050	5.20 (0.205)	6.68 (0.263)	1.60 (0.063)	1.60 (0.063)

CERAMIC RESONATORS: mm



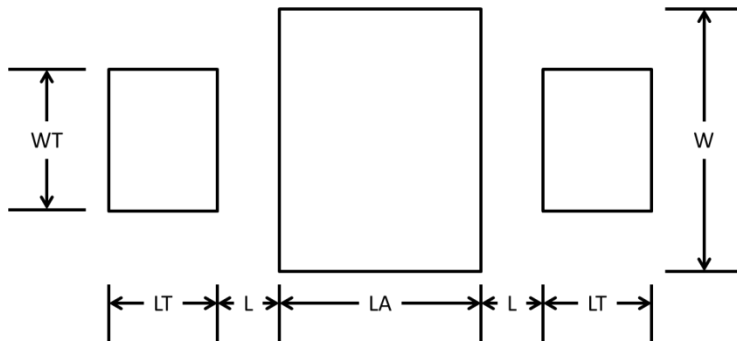
Surface Mount Terminations: mm (in.)



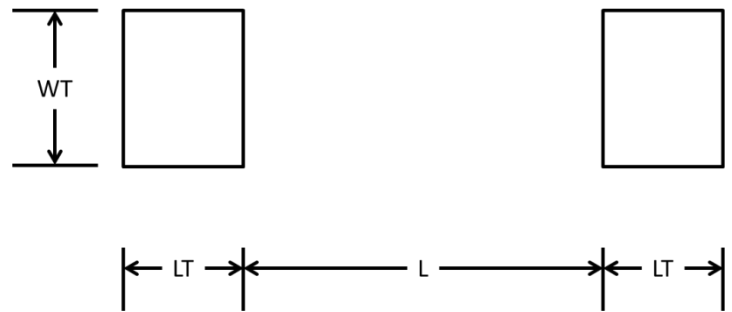
Part Number	WT	W	LT	L	LA
RP92010T0050GTTR	2.29 (0.090)	2.54 (0.100)	1.28 (0.050)	1.14 (0.045)	3.65 (0.144)
RP92525T0050GTTR	3.18 (0.125)	6.22 (0.245)	0.95 (0.037)	1.14 (0.045)	5.40 (0.213)
RP93725T0050GTTR	3.18 (0.125)	6.35 (0.250)	1.59 (0.063)	1.66 (0.065)	8.25 (0.325)
RP93737T0050GTTR	3.18 (0.125)	9.40 (0.370)	1.59 (0.063)	1.14 (0.045)	8.74 (0.344)

SURFACE MOUNT CHIP RESISTORS: mm (in.)

RP4



RP5



Part Number	WT	W	LT	L	LA
RP42010RxxxxGTTR	2.29 (0.090)	3.18 (0.125)	0.95 (0.037)	1.05 (0.041)	2.41 (0.095)
RP42525RxxxxGTTR	3.05 (0.120)	7.78 (0.306)	1.28 (0.050)	0.70 (0.027)	2.79 (0.110)
RP43725RxxxxGTTR	3.05 (0.120)	7.94 (0.313)	1.59 (0.063)	1.02 (0.040)	4.95 (0.195)
RP43737RxxxxGTTR	9.14 (0.360)	11.75 (0.463)	1.59 (0.063)	0.96 (0.038)	4.95 (0.195)
RP52010RxxxxGTTR	2.29 (0.090)	N/A	0.95 (0.037)	3.56 (0.140)	N/A
RP52525RxxxxGTTR	3.05 (0.120)	N/A	1.28 (0.050)	4.18 (0.165)	N/A
RP53725RxxxxGTTR	3.05 (0.120)	N/A	1.59 (0.063)	6.99 (0.275)	N/A
RP53737RxxxxGTTR	9.14 (0.360)	N/A	1.59 (0.063)	6.86 (0.270)	N/A