

5 kHz to 2500 MHz

SURFACE MOUNT

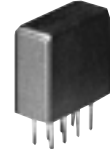
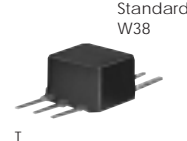


MODEL NO.	Ω RATIO Note D	FREQUENCY (MHz)	INSERTION LOSS *			CASE STYLE Note B	CONNECTION	PRICE \$ Qty. (1-9)																																																																																																																																																																																														
			3 dB MHz	2 dB MHz	1 dB MHz																																																																																																																																																																																																	
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◆◆ TC4-11	50/12.5	2-1100	—	2-1100	5-700	AT224	kp	4.95																																																																																																																																																																																														
◆ TC1.5-1	1.5	.5-2200	.5-2200	1-2000	2-1100	AT224	jt	4.95																																																																																																																																																																																														
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<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>D</b></p> </div> <table border="1"> <tbody> <tr> <td>◆</td> <td>ADT1.5-17*</td> <td>1.5</td> <td>.5-1700</td> <td>.5-1700</td> <td>1-1500</td> <td>2-1100</td> <td>CD542</td> <td>la</td> <td>3.45***</td> </tr> <tr> <td>◆◆</td> <td>TC4-11</td> <td>50/12.5</td> <td>2-1100</td> <td>—</td> <td>2-1100</td> <td>5-700</td> <td>AT224</td> <td>kp</td> <td>4.95</td> </tr> <tr> <td>◆</td> <td>TC1.5-1</td> <td>1.5</td> <td>.5-2200</td> <td>.5-2200</td> <td>1-2000</td> <td>2-1100</td> <td>AT224</td> <td>jt</td> <td>4.95</td> </tr> <tr> <td>◆○</td> <td>TC9-1-75</td> <td>75/8</td> <td>0.3-475</td> <td>0.3-475</td> <td>0.5-450</td> <td>0.9-370</td> <td>AT224</td> <td>kp</td> <td>4.95</td> </tr> <tr> <td>◆</td> <td>T2-1-KK81</td> <td>2</td> <td>.050-600</td> <td>.050-600</td> <td>.1-400</td> <td>5-200</td> <td>KK81</td> <td>fd</td> <td>3.95</td> </tr> <tr> <td>◆</td> <td>T3-1-KK81</td> <td>3</td> <td>.5-800</td> <td>.5-800</td> <td>2-400</td> <td>—</td> <td>KK81</td> <td>fd</td> <td>4.45</td> </tr> <tr> <td>◆</td> <td>T4-2-KK81</td> <td>4</td> <td>.2-600</td> <td>.2-600</td> <td>.5-500</td> <td>2-250</td> <td>KK81</td> <td>fd</td> <td>3.95</td> </tr> <tr> <td>◆</td> <td>T8-1-KK81</td> <td>8</td> <td>.15-250</td> <td>.15-250</td> <td>.25-200</td> <td>2-100</td> <td>KK81</td> <td>fd</td> <td>3.95</td> </tr> <tr> <td>◆</td> <td>T14-1-KK81</td> <td>14</td> <td>.2-150</td> <td>.2-150</td> <td>.5-100</td> <td>2-50</td> <td>KK81</td> <td>fd</td> <td>4.95</td> </tr> <tr> <td>◆</td> <td>T2-1</td> <td>2</td> <td>.050-600</td> <td>.050-600</td> <td>.1-400</td> <td>5-200</td> <td>◆</td> <td>fd</td> <td>3.95</td> </tr> <tr> <td>◆</td> <td>T3-1</td> <td>3</td> <td>.5-800</td> <td>.5-800</td> <td>2-400</td> <td>—</td> <td>◆</td> <td>fd</td> <td>4.45</td> </tr> <tr> <td>◆</td> <td>T4-2</td> <td>4</td> <td>.2-600</td> <td>.2-600</td> <td>.5-500</td> <td>2-250</td> <td>◆</td> <td>fd</td> <td>3.95</td> </tr> <tr> <td>◆</td> <td>T8-1</td> <td>8</td> <td>.15-250</td> <td>.15-250</td> <td>.25-200</td> <td>2-100</td> <td>◆</td> <td>fd</td> <td>3.95</td> </tr> <tr> <td>◆</td> <td>T14-1</td> <td>14</td> <td>.2-150</td> <td>.2-150</td> <td>.5-100</td> <td>2-50</td> <td>◆</td> <td>fd</td> <td>4.95</td> </tr> <tr> <td>◆</td> <td>TMO2-1</td> <td>2</td> <td>.050-600</td> <td>.050-600</td> <td>.1-400</td> <td>5-200</td> <td>A11</td> <td>fe</td> <td>7.95</td> </tr> <tr> <td>◆</td> <td>TMO4-2</td> <td>4</td> <td>.2-600</td> <td>.2-600</td> <td>.5-500</td> <td>2-250</td> <td>A11</td> <td>fe</td> <td>7.95</td> </tr> <tr> <td>◆</td> <td>TMO14-1</td> <td>14</td> <td>.2-150</td> <td>.2-150</td> <td>.5-100</td> <td>2-50</td> <td>A11</td> <td>fe</td> <td>8.45</td> </tr> <tr> <td>◆</td> <td>FT1.22-1</td> <td>1.22</td> <td>.005-100</td> <td>.005-100</td> <td>.01-50</td> <td>.05-25</td> <td>H16</td> <td>—</td> <td>35.95</td> </tr> <tr> <td>◆</td> <td>FT1.5-1</td> <td>1.5</td> <td>.1-400</td> <td>.1-400</td> <td>.5-200</td> <td>1-100</td> <td>H16</td> <td>—</td> <td>35.95</td> </tr> </tbody> </table> </div>									◆	ADT1.5-17*	1.5	.5-1700	.5-1700	1-1500	2-1100	CD542	la	3.45***	◆◆	TC4-11	50/12.5	2-1100	—	2-1100	5-700	AT224	kp	4.95	◆	TC1.5-1	1.5	.5-2200	.5-2200	1-2000	2-1100	AT224	jt	4.95	◆○	TC9-1-75	75/8	0.3-475	0.3-475	0.5-450	0.9-370	AT224	kp	4.95	◆	T2-1-KK81	2	.050-600	.050-600	.1-400	5-200	KK81	fd	3.95	◆	T3-1-KK81	3	.5-800	.5-800	2-400	—	KK81	fd	4.45	◆	T4-2-KK81	4	.2-600	.2-600	.5-500	2-250	KK81	fd	3.95	◆	T8-1-KK81	8	.15-250	.15-250	.25-200	2-100	KK81	fd	3.95	◆	T14-1-KK81	14	.2-150	.2-150	.5-100	2-50	KK81	fd	4.95	◆	T2-1	2	.050-600	.050-600	.1-400	5-200	◆	fd	3.95	◆	T3-1	3	.5-800	.5-800	2-400	—	◆	fd	4.45	◆	T4-2	4	.2-600	.2-600	.5-500	2-250	◆	fd	3.95	◆	T8-1	8	.15-250	.15-250	.25-200	2-100	◆	fd	3.95	◆	T14-1	14	.2-150	.2-150	.5-100	2-50	◆	fd	4.95	◆	TMO2-1	2	.050-600	.050-600	.1-400	5-200	A11	fe	7.95	◆	TMO4-2	4	.2-600	.2-600	.5-500	2-250	A11	fe	7.95	◆	TMO14-1	14	.2-150	.2-150	.5-100	2-50	A11	fe	8.45	◆	FT1.22-1	1.22	.005-100	.005-100	.01-50	.05-25	H16	—	35.95	◆	FT1.5-1	1.5	.1-400	.1-400	.5-200	1-100	H16	—	35.95
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**NOTES:**

- ◇ Two case styles available: Plug-in case style X65; Radial lead case style W38.
- \* Insertion loss referenced to mid-band loss.
- ◆ Aqueous washable.
- ◆ Denotes 75 ohm model, for coax connector models 75 ohm BNC connectors are standard.
- Non-hermetic
- ◆ Stepdown, 50 ohm primary, 5.2 pF across secondary
- Stepdown, 75 ohm primary, 51 pF across secondary
- \* Protected under U.S. Patent 6133525
- \*\*\* Price for quantities 10-49.
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in section 0, see "Mini-Circuits Guarantees Quality" article.
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case Styles & Outline Drawings".
- C. Prices and Specifications subject to change without notice.
- D. Impedance ratio= secondary/primary.
  1. Absolute power, voltage and current ratings:
    - 1a. RF input power: all models 0.25W except where noted (●● 1W rating; ●●● 2W rating)
    - 1b. DC current, 30mA
  2. For ADT,ADTL, TC,TCM,TCML, and T series, operating temperature range is -20°C to +85°C.

# Surface Mount □, Plug-In & Coaxial



MODEL NO.	Ω RATIO Note D	FREQUENCY (MHz)	INSERTION LOSS *			CASE STYLE Note B	CONNECTION	PRICE \$ Qty. (1-9)	
			3 dB MHz	2 dB MHz	1 dB MHz				
<b>F</b> 	T-622-KK81	1:1:1	0.1-200	0.1-200	0.5-100	5-80	KK81	ff	3.25
	T-626-KK81	1:1:1	0.01-10	0.01-10	0.02-5	.04-2	KK81	ff	3.95
	T2-613-1-KK81	1:1:2	0.07-200	0.07-200	0.1-100	0.5-50	KK81	fg	1.95
	T-622	1:1:1	0.1-200	0.1-200	0.5-100	5-80	◇	ff	3.25
	T-626	1:1:1	0.01-10	0.01-10	0.02-5	.04-2	◇	ff	3.95
	T2-613-1	1:1:2	0.07-200	0.07-200	0.1-100	0.5-50	◇	fg	1.95
<b>G</b> 	◆ TCML1-11	1	600-1100	—	600-1100	700-1000	DB714	mh	4.95
	◆ TCML1-19	1	800-1900	800-1900	—	800-1400	DB714	mh	4.95
	◆◆◆ ADTL1-12*	1	20-1200	—	20-1200	50-1000	CD542	kn	2.95***
	◆◆◆ ADTL1-18-75*	1	5-1800	—	5-1800	25-1200	CD542	kn	2.95***
	◆◆◆ ADTL1-4-75*	1	0.5-1000	0.5-1000	1-600	5-400	CD542	kn	2.95***
	NEW◆◆ ADTL2-18*	2	30-1800	30-1800	—	100-1500	CD542	kn	3.95***
<b>H</b> 	NEW◆◆ TCM4-19	4	10-1900	10-1900	20-1000	30-700	DB714	gs	6.95
	◆ TCM4-25	4	500-2500	500-2500	700-1500	750-1200	DB714	gs	5.95

pin connections see case style outline drawings

PORT	fd	fe	ff	fg	gs	jt	kn	kp	la	mh
PRIMARY DOT	6	1	X1 Y2 Z3	X1 Y5 Z3	6	6	1	6	1	6
PRIMARY	3	6	X6 Y5 Z4	X2 Y6 Z4	4	4	3	3	3	4
PRIMARY CT	—	—	—	—	—	—	—	—	—	—
SECONDARY DOT	1	2	—	—	3	1	6	1	6	1
SECONDARY	3	6	—	—	1	4	4	3	3	3
SECONDARY CT	—	—	—	—	2	—	—	—	—	—
CASE EXT.	3	6	—	—	—	—	—	—	—	—
CASE GND	—	7,8	—	—	—	—	—	—	—	—
NOT USED	2,4,5	3,4,5	—	—	5	2,3,5	2,5	—	2,4,5	2,5
DEMO BOARD	—	—	—	—	—	TB-41	—	—	TB-40	—

### NSN GUIDE

MCL NO.	NSN
FTB1-1-75	5950-01-132-8034
FTB1-6	5950-01-225-8773
FT1.5-1	5950-01-325-4686
T2-1	5950-01-106-1218
T4-2	5950-01-361-1794
TMO2-1	5950-01-183-6414
TMO4-2	5950-01-091-3553
TMO8-1	5950-01-442-8008



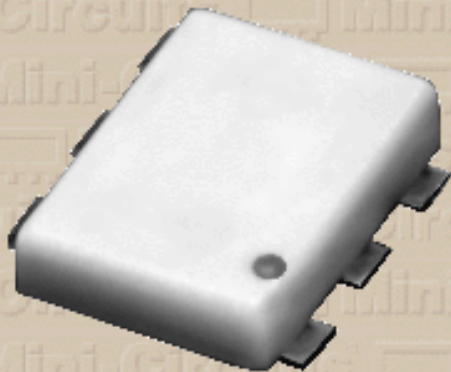
The Design Engineers Search Engine

Provides Actual Data Instantly  
At: <http://www.minicircuits.com>

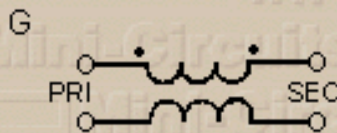
In Stock... Immediate Delivery  
For Custom Versions Of Standard Models  
Consult Our Applications Dept.



# RF Transformer



Configuration Type:

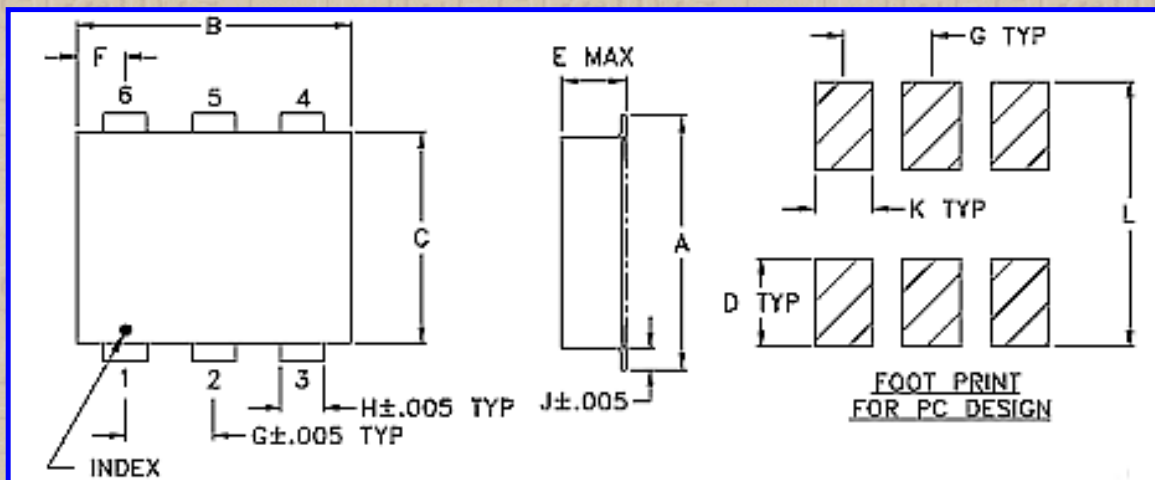


## ADTL1-4-75

Ω RATIO	Frequency MHz	Insertion Loss			Case Style	Conn- ection
		3 dB MHz	2 dB MHz	1 dB MHz		
1	0.50-1000	0.50- 1000	1.00- 600	5.00- 400	CD542	kn

### Pin Connections

Port	Primary Dot	Primary	Primary CT	Second- ary Dot	Second- ary	Second- ary CT	Gnd Ext.	Case Gnd	Not Used
kn	1	3	-	6	4	-	-	-	2,5



### Notes:

- Absolute power, voltage and current ratings:  
RF input power: 1.0 Watt rating  
DC current, 30mA.
- Operating temperature range is -20°C to +85°C.
- Impedance ratio = secondary/primary
- For Surface Mount Environmental Specifications, please click [here](#).  
Re-flow soldering information is available in "[Surface Mount](#)" article.
- Denotes 75 ohm model, for coax connector models 75 ohm BNC connectors are standard.
- Non-hermetic
- Insertion loss referenced to mid-band loss
- General Quality Control Procedures and Environmental Specifications are given in [Mini-Circuits Guarantees Quality](#).  
Hi-Rel, MIL description are given in [Hi-Rel and MIL](#)
- Prices and Specifications subjects to change without notice.

Case Style - CD542 (inch,mm ) weight: 0.2 grams.

A	B	C	D	E	F	G	H	J
.280 7.112	.310 7.874	.220 5.588	.100 2.540	.112 2.845	.055 1.397	.100 2.540	.030 0.762	.030 0.762
K	L	M	N	P	Q	R	S	T
.065 1.651	.300 7.620							

Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

Material and Finish:

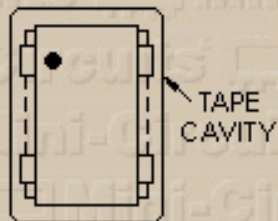
Case material: plastic. Lead finish: tin-lead plate or tin plate.

Packaging:

**UNIT ORIENTATION**

Packaging information:

Tape Width(mm): 16  
 Reel Size(inches): 13  
 Device Cavity Pitch(mm): 12  
 Devices Per Reel: 1000



DIRECTION OF FEED →

FREQ. (MHz)	Insertion Loss(dB)	Input Return Loss(dB)
0.500	0.12	35.43
0.750	0.11	37.83
1.000	0.10	39.32
2.000	0.09	43.24
3.000	0.08	45.00
4.000	0.08	45.96
5.000	0.08	46.47
10.000	0.08	46.63
20.000	0.10	44.82
30.000	0.12	43.29
40.000	0.13	41.65
76.000	0.15	37.85
112.000	0.19	34.35
148.000	0.21	31.36
184.000	0.24	29.41
220.000	0.27	27.45
256.000	0.29	25.67
292.000	0.32	24.35
328.000	0.34	23.07
364.000	0.38	21.99
400.000	0.41	21.08
420.000	0.43	20.60
440.000	0.46	20.13
460.000	0.49	19.69
480.000	0.50	19.28
500.000	0.52	18.92
520.000	0.55	18.58
540.000	0.58	18.25
560.000	0.60	17.92
580.000	0.63	17.59
600.000	0.66	17.27
640.000	0.76	16.75
680.000	0.79	16.21
720.000	0.87	15.65
760.000	0.94	15.15
800.000	1.02	14.59
840.000	1.13	14.00
880.000	1.19	13.41
920.000	1.31	12.73



960.000	1.40	12.08
1000.000	1.52	11.45



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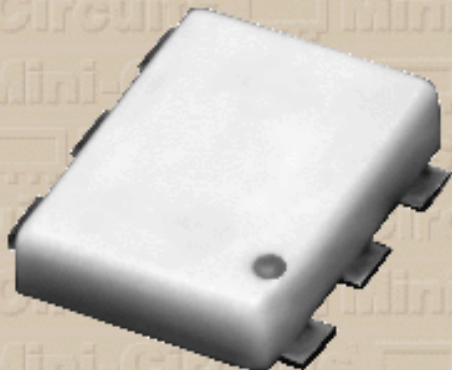
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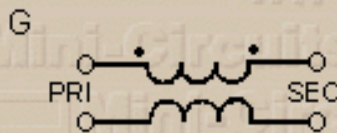
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# RF Transformer



Configuration Type:

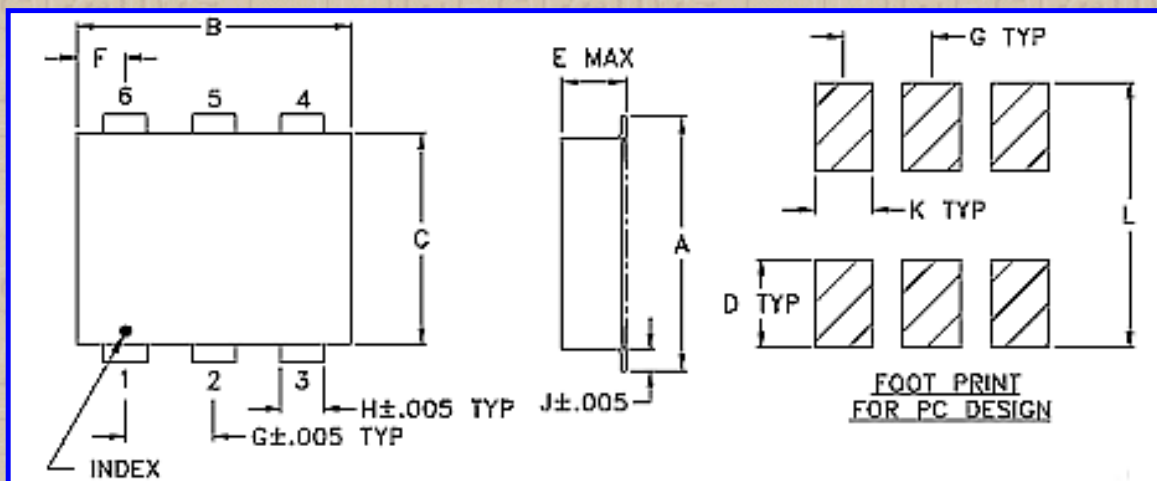


## ADTL1-18-75

Ω RATIO	Frequency MHz	Insertion Loss			Case Style	Conn- ection
		3 dB MHz	2 dB MHz	1 dB MHz		
1	5.00-1800	-	5.00- 1800	25-1200	CD542	kn

### Pin Connections

Port	Primary Dot	Primary	Primary CT	Second- ary Dot	Second- ary	Second- ary CT	Gnd Ext.	Case Gnd	Not Used
kn	1	3	-	6	4	-	-	-	2,5



### Notes:

- Absolute power, voltage and current ratings:  
RF input power: 0.25 Watt rating  
DC current, 30mA.
- Operating temperature range is -20°C to +85°C.
- Impedance ratio = secondary/primary
- For Surface Mount Environmental Specifications, please click [here](#).  
Re-flow soldering information is available in "[Surface Mount](#)" article.
- Denotes 75 ohm model, for coax connector models 75 ohm BNC connectors are standard.
- Non-hermetic
- Insertion loss referenced to mid-band loss
- General Quality Control Procedures and Environmental Specifications are given in [Mini-Circuits Guarantees Quality](#).  
Hi-Rel, MIL description are given in [Hi-Rel and MIL](#)
- Prices and Specifications subjects to change without notice.

Case Style - CD542 (inch,mm ) weight: 0.2 grams.

A	B	C	D	E	F	G	H	J
.280 7.112	.310 7.874	.220 5.588	.100 2.540	.112 2.845	.055 1.397	.100 2.540	.030 0.762	.030 0.762
K	L	M	N	P	Q	R	S	T
.065 1.651	.300 7.620							

Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

Material and Finish:

Case material: plastic. Lead finish: tin-lead plate or tin plate.

Packaging:

**UNIT ORIENTATION**

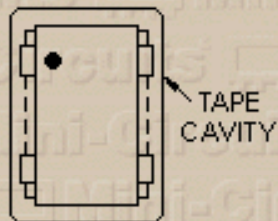
Packaging information:

Tape Width(mm): 16

Reel Size(inches): 13

Device Cavity Pitch(mm): 12

Devices Per Reel: 1000

DIRECTION  
OF FEED →

FREQ. (MHz)	Insertion Loss(dB)	Input Return Loss(dB)
5.000	0.11	21.87
7.000	0.14	24.94
9.000	0.16	26.71
11.000	0.17	27.91
13.000	0.17	28.79
15.000	0.17	29.54
17.000	0.16	30.12
19.000	0.16	30.71
21.000	0.16	31.33
23.000	0.16	31.72
25.000	0.16	32.09
80.000	0.16	35.85
135.000	0.18	34.59
190.000	0.20	31.98
245.000	0.23	29.83
300.000	0.25	27.66
360.000	0.28	25.36
420.000	0.31	23.44
480.000	0.35	22.03
540.000	0.39	20.69
600.000	0.41	19.83
660.000	0.44	18.93
720.000	0.47	18.32
780.000	0.51	17.66
840.000	0.54	17.55
900.000	0.56	17.26
960.000	0.60	17.58
1020.000	0.65	17.50
1080.000	0.68	17.71
1140.000	0.72	17.93
1200.000	0.76	18.27
1260.000	0.80	18.30
1320.000	0.85	17.89
1380.000	0.91	16.78
1440.000	1.02	15.69
1500.000	1.12	14.58
1560.000	1.26	13.26
1620.000	1.42	12.14
1680.000	1.57	10.97



1740.000	1.79	10.16
1800.000	1.95	9.42



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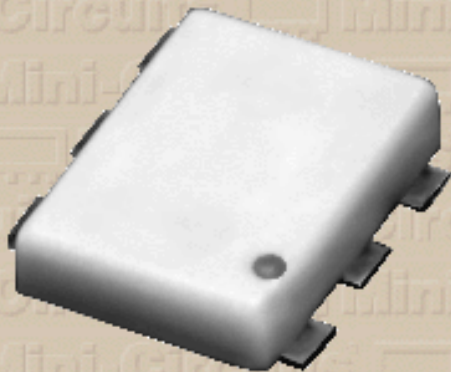
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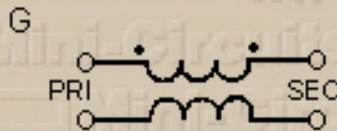
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# RF Transformer



Configuration Type:

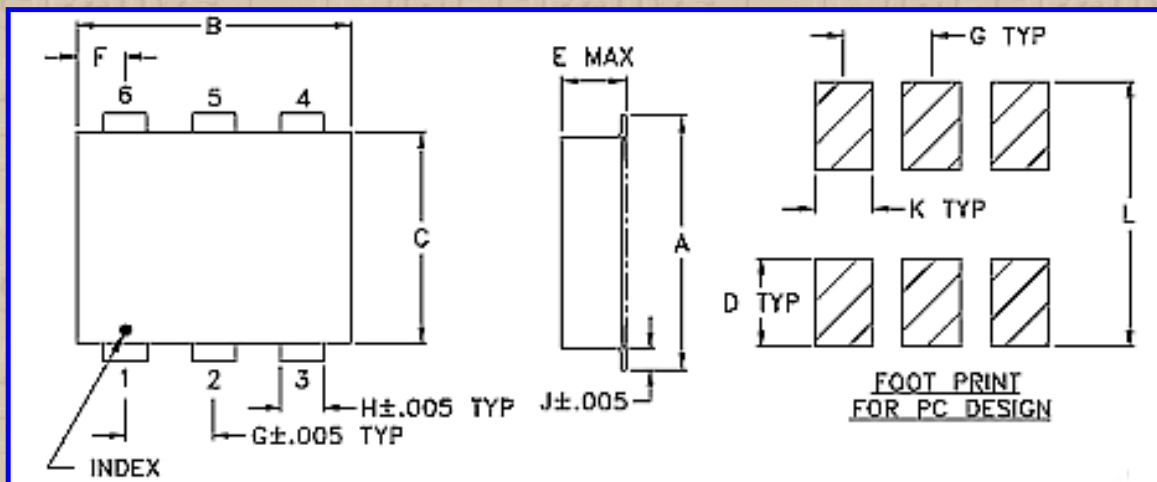


## ADTL1-12

Ω RATIO	Frequency MHz	Insertion Loss			Case Style	Conn- ection
		3 dB MHz	2 dB MHz	1 dB MHz		
1	20-1200	-	20-1200	50-1000	CD542	kn

### Pin Connections

Port	Primary Dot	Primary	Primary CT	Second- ary Dot	Second- ary	Second- ary CT	Gnd Ext.	Case Gnd	Not Used
kn	1	3	-	6	4	-	-	-	2,5



### Notes:

- Absolute power, voltage and current ratings:  
RF input power: 2.0 Watt rating  
DC current, 30mA.
- Operating temperature range is -20°C to +85°C.
- Impedance ratio = secondary/primary
- For Surface Mount Environmental Specifications, please click [here](#).  
Re-flow soldering information is available in "[Surface Mount](#)" article.
- Non-hermetic
- Insertion loss referenced to mid-band loss
- General Quality Control Procedures and Environmental Specifications are given in [Mini-Circuits Guarantees Quality](#).  
Hi-Rel, MIL description are given in [Hi-Rel and MIL](#)
- Prices and Specifications subjects to change without notice.

Case Style - CD542 (inch,mm ) weight: 0.2 grams.

A	B	C	D	E	F	G	H	J
.280	.310	.220	.100	.112	.055	.100	.030	.030
7.112	7.874	5.588	2.540	2.845	1.397	2.540	0.762	0.762
K	L	M	N	P	Q	R	S	T
.065	.300							
1.651	7.620							

Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

Material and Finish:

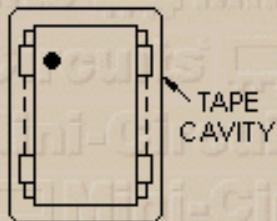
Case material: plastic. Lead finish: tin-lead plate or tin plate.

Packaging:

**UNIT ORIENTATION**

Packaging information:

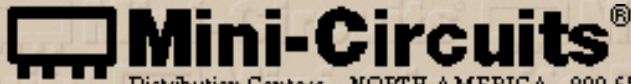
Tape Width(mm): 16  
 Reel Size(inches): 13  
 Device Cavity Pitch(mm): 12  
 Devices Per Reel: 1000



DIRECTION OF FEED →

FREQ. (MHz)	Insertion Loss(dB)	Input Return Loss(dB)
20.000	0.13	30.03
23.000	0.12	29.79
26.000	0.12	29.51
29.000	0.13	29.18
32.000	0.13	28.83
35.000	0.14	28.46
38.000	0.14	28.12
41.000	0.14	27.76
44.000	0.14	27.40
47.000	0.14	27.05
50.000	0.14	26.70
95.000	0.19	22.61
140.000	0.24	19.90
185.000	0.29	17.88
230.000	0.34	16.36
275.000	0.38	15.17
320.000	0.46	14.23
365.000	0.48	13.49
410.000	0.56	12.92
455.000	0.54	12.47
500.000	0.63	12.15
550.000	0.62	11.93
600.000	0.67	11.83
650.000	0.67	11.87
700.000	0.66	12.05
750.000	0.65	12.36
800.000	0.68	12.79
850.000	0.59	13.38
900.000	0.68	14.14
950.000	0.54	15.08
1000.000	0.64	16.15
1020.000	0.58	16.60
1040.000	0.54	17.04
1060.000	0.58	17.44
1080.000	0.63	17.78
1100.000	0.65	18.02
1120.000	0.64	18.11
1140.000	0.64	18.07
1160.000	0.64	17.87

1180.000	0.67	17.52
1200.000	0.73	17.04



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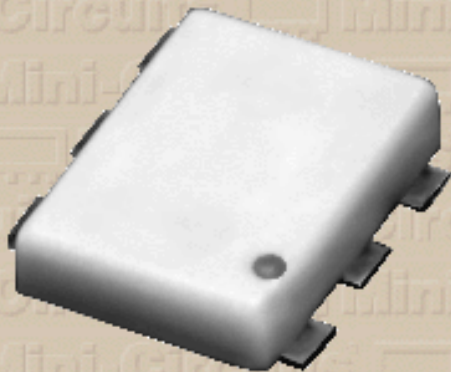
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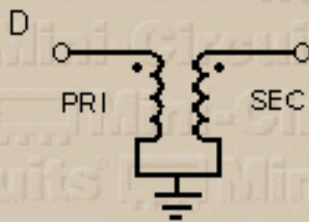
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# RF Transformer



Configuration Type:

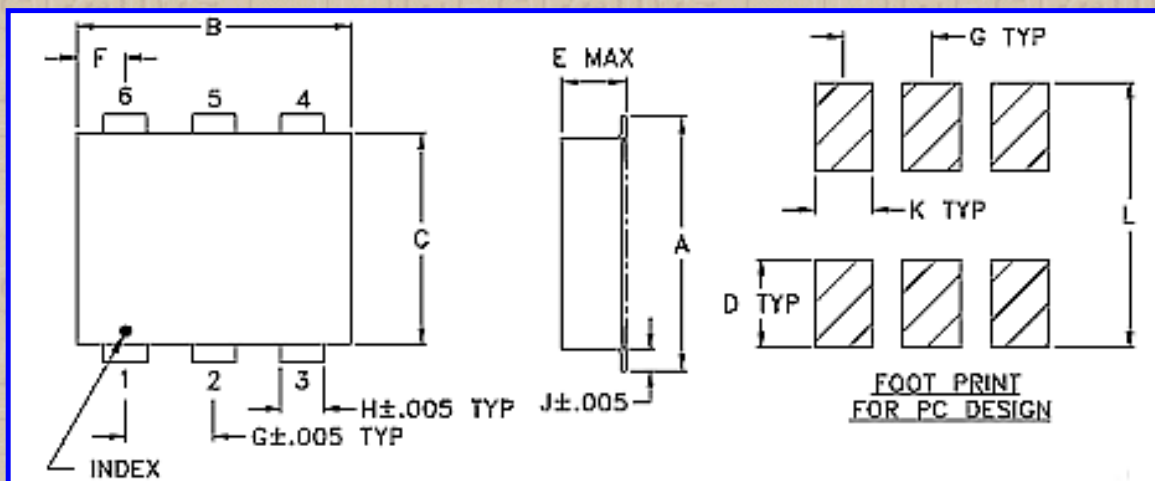


## ADT1.5-17

Ω RATIO	Frequency MHz	Insertion Loss			Case Style	Conn- ection
		3 dB MHz	2 dB MHz	1 dB MHz		
1.50	0.50-1700	0.50-1700	1.00-1500	2.00-1100	CD542	1a

### Pin Connections

Port	Primary Dot	Primary	Primary CT	Secondary Dot	Secondary	Secondary CT	Gnd Ext.	Case Gnd	Not Used
1a	1	3	-	6	3	-	-	-	2,4,5



### Notes:

- Absolute power, voltage and current ratings:  
RF input power: 0.25 Watt rating  
DC current, 30mA.
- Operating temperature range is -20°C to +85°C.
- Impedance ratio = secondary/primary
- For Surface Mount Environmental Specifications, please click [here](#).  
Re-flow soldering information is available in "[Surface Mount](#)" article.
- Non-hermetic
- Insertion loss referenced to mid-band loss
- General Quality Control Procedures and Environmental Specifications are given in [Mini-Circuits Guarantees Quality](#).  
Hi-Rel, MIL description are given in [Hi-Rel and MIL](#)
- Prices and Specifications subjects to change without notice.

Case Style - CD542 (inch,mm ) weight: 0.2 grams.

A	B	C	D	E	F	G	H	J
.280	.310	.220	.100	.112	.055	.100	.030	.030
7.112	7.874	5.588	2.540	2.845	1.397	2.540	0.762	0.762
K	L	M	N	P	Q	R	S	T
.065	.300							
1.651	7.620							

Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

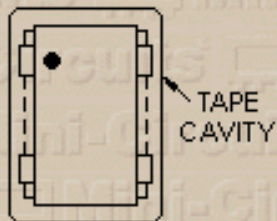
Material and Finish:

Case material: plastic. Lead finish: tin-lead plate or tin plate.

Packaging:

**UNIT ORIENTATION**

Packaging information:  
 Tape Width(mm): 16  
 Reel Size(inches): 13  
 Device Cavity Pitch(mm): 12  
 Devices Per Reel: 1000



FREQ. (MHz)	Insertion Loss(dB)	Input Return Loss(dB)
0.500	0.65	17.56
1.000	0.55	19.45
2.000	0.43	21.26
51.000	0.35	24.57
100.000	0.38	24.78
766.660	0.58	21.77
1100.000	0.79	15.52
1400.000	1.24	12.50
1550.000	1.29	11.36
1700.000	1.47	10.16



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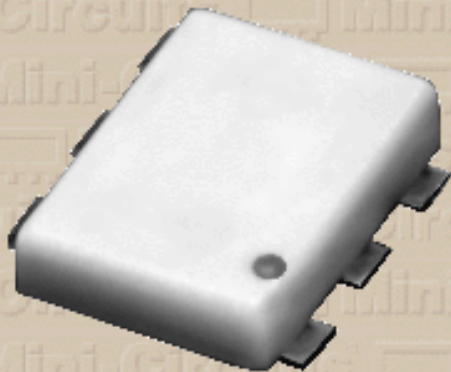
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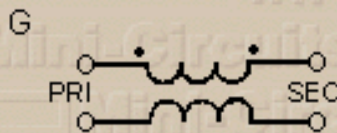
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# RF Transformer



Configuration Type:

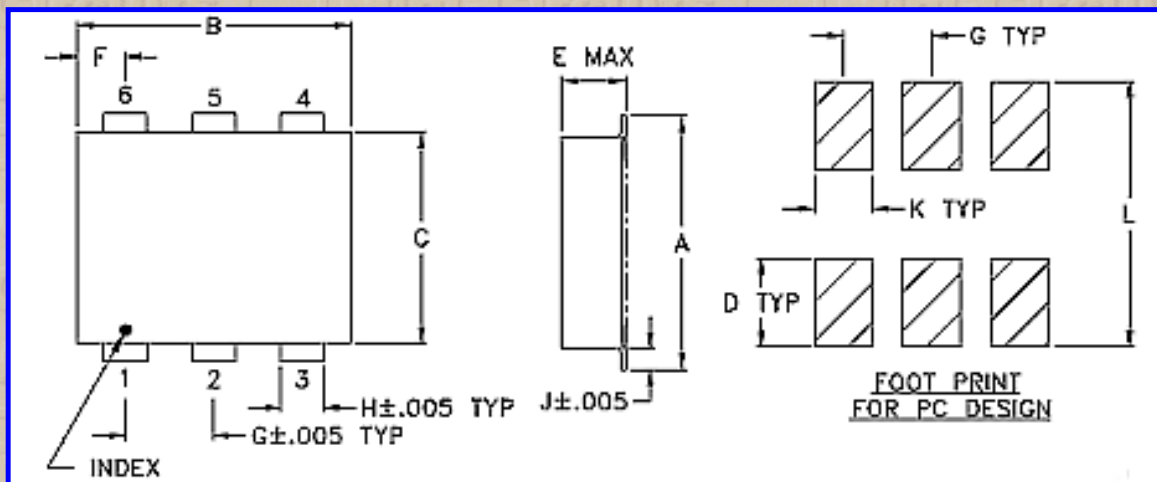


## ADTL2-18

Ω RATIO	Frequency MHz	Insertion Loss			Case Style	Conn- ection
		3 dB MHz	2 dB MHz	1 dB MHz		
2	30-1800	30-1800	-	100- 1500	CD542	kn

### Pin Connections

Port	Primary Dot	Primary	Primary CT	Second- ary Dot	Second- ary	Second- ary CT	Gnd Ext.	Case Gnd	Not Used
kn	1	3	-	6	4	-	-	-	2,5



### Notes:

- FOR A AND B CONFIGURATIONS:  
Typical Amplitude Unbalance: 0.1 dB over 1 dB frequency range; 0.5 dB over entire frequency range.  
Typical Phase Unbalance: 1.0° over 1 dB frequency range; 5.0° over entire frequency range.
- Insertion loss referenced to mid-band loss, 0.6 dB typ. Limited by unbalance.
- General Quality Control Procedures and Environmental Specifications are given in [Mini-Circuits Guarantees Quality](#).  
Hi-Rel, MIL description are given in [Hi-Rel and MIL](#).
- Prices and Specifications subjects to change without notice.

Case Style - CD542 (inch,mm ) weight: 0.2 grams.

A	B	C	D	E	F	G	H	J
.280 7.112	.310 7.874	.220 5.588	.100 2.540	.112 2.845	.055 1.397	.100 2.540	.030 0.762	.030 0.762
K	L	M	N	P	Q	R	S	T
.065 1.651	.300 7.620							

Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

Material and Finish:

Case material: plastic. Lead finish: tin-lead plate or tin plate.

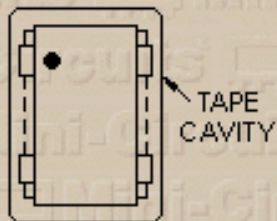
Packaging:

FREQ. (MHz)	Insertion Loss(dB)	Input Return Loss(dB)
30.000	0.73	10.10
37.000	0.72	10.06
44.000	0.72	10.04
51.000	0.72	10.02
58.000	0.72	10.00
65.000	0.72	9.99
72.000	0.72	9.99
79.000	0.72	9.97
86.000	0.73	9.97
93.000	0.74	9.97



**UNIT ORIENTATION**

Packaging information:  
 Tape Width(mm): 16  
 Reel Size(inches): 13  
 Device Cavity Pitch(mm): 12  
 Devices Per Reel: 1000



100.000	0.74	9.97
165.000	0.73	10.01
230.000	0.76	10.13
295.000	0.76	10.33
360.000	0.67	10.60
425.000	0.72	10.97
490.000	0.73	11.40
555.000	0.62	11.95
620.000	0.58	12.66
685.000	0.60	13.48
750.000	0.49	14.50
825.000	0.47	15.97
900.000	0.64	17.88
975.000	0.55	20.34
1050.000	0.31	23.20
1125.000	0.47	24.95
1200.000	0.58	23.15
1275.000	0.38	20.06
1350.000	0.52	17.41
1425.000	0.95	15.34
1500.000	0.98	13.63
1530.000	1.01	13.04
1560.000	0.98	12.50
1590.000	1.01	11.99
1620.000	1.19	11.51
1650.000	1.30	11.09
1680.000	1.13	10.69
1710.000	1.34	10.29
1740.000	1.54	9.95
1770.000	1.33	9.61
1800.000	1.54	9.27

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