

TRANSFORMERS, IF/RF 50 & 75 Ω

4 kHz to 1.4 GHz Wideband 50 to 1800 Ω



TCM
Case DB714



TC
Case AT224-1, AT224-3

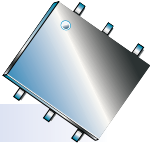


ADT
CD542/CD636/CD637

MODEL PREFIX	Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS (dB) Above mid band		
			3 dB MHz	2 dB MHz	1 dB MHz
A SCHEMATIC Unbalanced to Balanced center tap					
ADT1-6T	1	0.03-125	0.03-125	0.04-75	0.05-50
T1-1T	1	0.08-200	0.08-200	0.15-150	0.2-80
T1-1T-KK81	1	0.08-200	0.08-200	0.15-150	0.2-80
T1-6T	1	0.015-300	0.015-300	0.021-150	0.03-50
T1-6T-KK81	1	0.015-300	0.015-300	0.021-150	0.03-50
■ ADT1-1WT-1	1	1-400	—	—	1-400
TC1-1T	1	0.4-500	0.4-500	0.5-300	1-100
TC1-1TG2	1	0.4-500	0.4-500	0.5-300	1-100
■ ADT1-1WT	1	0.4-800	0.4-800	0.5-700	1-400
TC1.5-52T	1.5	0.5-550	0.5-550	1-350	2-200
TC1.5-52TG2	1.5	0.5-550	0.5-550	1-350	2-200
ADT1.5-1	1.5	0.5-650	0.5-650	0.8-500	1-300
T2-1T	2	0.07-200	0.07-200	0.1-100	0.5-50
T2-1T-KK81	2	0.07-200	0.07-200	0.1-100	0.5-50
TC2-1T	2	3-300	—	—	3-300
TC2-1T G2	2	3-300	—	—	3-300
TCM2-1T	2	3-300	—	—	3-300
ADT2-1T	2	0.4-450	0.4-450	0.6-400	1-200
ADT2-1T-1P	2	8-600	8-600	10-400	13-300
■ JTX-2-10T	2	50-1000	—	—	50-1000
■ TX-2-5-1	2	30-1100	—	30-1100	100-800
JT-1975	2	0.04-80	0.04-80	0.05-60	0.1-30
T2.5-6T	2	0.01-100	0.01-100	0.02-50	0.50-20
T2.5-6T-KK81	2	0.01-100	0.01-100	0.02-50	0.50-20
T3-1T	3	0.05-250	0.05-200	0.1-200	0.5-70
T3-1T-KK81	3	0.05-250	0.05-250	0.1-200	0.5-70
TC3-1T	3	5-300	—	—	5-300
TC3-1TG2	3	5-300	—	—	5-300
ADT3-6T	3	0.06-400	0.06-400	0.1-290	0.2-250
ADT3-1T	3	1-500	—	1-500	2-300
TCM3-1T	3	2-500	—	2-500	5-300
T4-6T	4	0.02-250	0.02-250	0.05-150	0.1-100
T4-6T-KK81	4	0.02-250	0.02-250	0.05-150	0.1-100
ADT4-6T	4	0.06-300	0.06-300	0.08-250	0.15-200
TC4-1T	4	0.5-300	—	0.5-300	1.5-100
TC4-1TG2	4	0.5-300	—	0.5-300	1.5-100
T4-1	4	0.2-350	0.2-350	0.35-300	2-100
T4-1-KK81	4	0.2-350	0.2-350	0.35-300	2-100
T4-1H	4	10-350	10-350	15-300	25-200
T4-1H-KK81	4	10-350	10-350	15-300	25-200
ADT4-5WT	4	0.3-500	0.3-500	0.5-400	2-250
ADT4-6WT	4	0.5-600	0.5-600	0.7-475	2-300
TC4-6T	4	1.5-600	1.5-600	2-400	3-350
TC4-6TG2	4	1.5-600	1.5-600	2-400	3-350
TCM4-6T	4	1.5-600	1.5-600	2-400	3-350
ADT4-1T	4	9-625	9-625	10-550	14-500
ADT4-1WT	4	2-775	2-775	3-600	6-250
TC4-1W	4	3-800	3-800	5-400	10-100
TC4-1WG2	4	3-800	3-800	5-400	10-100
TCM4-1W	4	3-800	3-800	5-400	10-100
JTX-4-10T	4	50-1000	—	—	50-1000
TC4-14	4	200-1400	200-1400	300-1300	800-1100
TC4-14G2	4	200-1400	200-1400	300-1300	800-1100
TCM4-14	4	200-1400	200-1400	300-1300	800-1100
T5-1T	5	0.3-300	0.3-300	0.6-200	5-100
T5-1T-KK81	5	0.3-300	0.3-300	0.6-200	5-100
ADT8-1T	8	0.1-130	0.1-130	0.15-110	0.2-75
T8-1T	8	0.3-140	0.3-140	0.7-90	1-60
T8-1T-KK81	8	0.3-140	0.3-140	0.7-90	1-60
TCM8-1	8	2-500	2-500	5-400	10-100
TC8-1G2	8	2-500	2-500	5-400	10-100
TC8-1	8	2-500	2-500	5-400	10-100
TC9-1	9	2-200	2-200	3-100	5-40
TC9-1G2	9	2-200	2-200	3-100	5-40
ADT9-1T	9	1-250	—	1-250	2-150
TCM9-1	9	2-280	2-280	3-150	5-100
T13-1T	13	0.3-120	0.3-120	0.7-80	5-20
T13-1T-KK81	13	0.3-120	0.3-120	0.7-80	5-20
ADT16-6T	16	0.1-70	0.1-70	0.18-45	0.30-33
T16-6T	16	0.03-75	0.03-75	0.06-30	0.1-20
T16-6T-KK81	16	0.03-75	0.03-75	0.06-30	0.1-20
ADT16-1T	16	1.5-160	1.5-160	3-105	5-65
TC16-161T	16	0.6-160	0.6-160	1.5-120	3-80
TC16-161TG2	16	0.6-160	0.6-160	1.5-120	3-80
TC16-1T	16	20-300	20-300	30-200	50-150
TC16-1TG2	16	20-300	20-300	30-200	50-150
TX16-R3T	16	40-300	40-300	60-220	70-150

■ 75 Ω





SURFACE MOUNT PRODUCTS



MODEL PREFIX	Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS (dB) Above midband loss		
			3 dB MHz	2 dB MHz	1 dB MHz

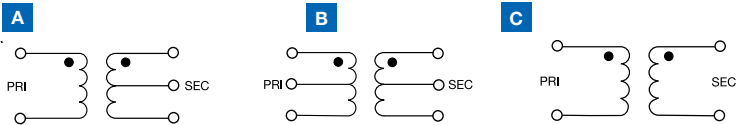
B SCHEMATIC *Balanced to Balanced center tap at primary & Secondary*

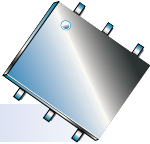
ADTT1-6	1	.015-100	.015-100	.02-50	.06-30
ADTT1-1	1	.03-300	.03-300	.04-200	.05-90
TT1-6-KK81	1	.004-300	.004-300	.02-200	.1-50
TT1-6	1	.004-300	.004-300	.02-200	.1-50
ADTT1.5-1	1.5	.025-300	.025-300	.03-175	.05-100
TT1.5-1-KK81	1.5	.075-500	.075-500	.2-100	1-50
TT1.5-1	1.5	.075-500	.075-500	.2-100	1-50
TT2.5-6-KK81	2.5	.01-50	.01-50	.025-25	.05-10
TT2.5-6	2.5	.01-50	.01-50	.025-25	.05-10
TT4-1-KK81	3	.05-200	.05-200	.2-50	1-30
TT4-1	3	.05-200	.05-200	.2-50	1-30
ADTT3-2	3	.02-210	.02-210	.03-150	.05-90
ADTT4-1	4	.02-120	—	—	.02-120
TT4-1A-KK81	4	.01-300	.01-300	.02-250	.03-180
TT4-1A	4	.01-300	.01-300	.02-250	.03-180
TTCM4-4	4	.05-400	.05-400	1.3-160	5-100
TT16-1-KK81	16	.01-45	.01-45	.014-35	1-20
TT16-1	16	.01-45	.01-45	.014-35	1-20
TT25-1-KK81	25	.02-30	.02-30	.05-20	.1-10
TT25-1	25	.02-30	.02-30	.05-20	.1-10

C SCHEMATIC *Balanced to Balanced*

T1-6-KK81	1	.01-150	.01-150	.02-100	.05-50
T1-6	1	.01-150	.01-150	.02-100	.05-50
T1-1H-KK81	1	8-300	8-300	10-200	25-100
T1-1H	1	8-300	8-300	10-200	25-100
TC1-6	1	.015-350	.015-350	.025-250	.03-125
ADT1-1	1	.015-400	.015-400	.02-200	.03-100
T1-1-KK81	1	.015-400	.015-400	.35-200	2-50
T1-1	1	.015-400	.015-400	.35-200	2-50
TC1-42	1	.015-400	.015-400	.35-200	2-50
TX1-1	1	.025-400	.025-400	.035-250	.07-150
TCM1-1	1	.03-400	.03-400	.06-200	2-50
TC1-1	1	1.5-500	1.5-500	2.5-400	5-350
TC1-1G2	1	1.5-500	1.5-500	2.5-400	5-350
TX1-R5	1	0.8-500	0.8-500	1.2-350	3.2-180
T1.18-3-KK81	1.18	.001-250	.001-250	.002-200	.003-50
T1.18-3	1.18	.001-250	.001-250	.002-200	.003-50
T1.5-6-KK81	1.5	.02-100	.02-100	.05-50	.01-25
T1.5-6	1.5	.02-100	.02-100	.05-50	.01-25
ADT1.5-2	1.5	.03-225	.03-225	.05-140	.07-80
T1.5-1-KK81	1.5	.1-300	.1-300	.2-150	.5-80
T1.5-1	1.5	.1-300	.1-300	.2-150	.5-80
TX1.5-1	1.5	.025-300	.025-300	.03-150	.05-80
T2-1-2W-KK81	2	5-120	—	—	5-120
T2-1-2W	2	5-120	—	—	5-120
T2.5-6-KK81	2.5	.01-100	.01-100	.02-50	.05-20
T2.5-6	2.5	.01-100	.01-100	.02-50	.05-20
T4-6-KK81	4	.02-200	.02-200	.05-150	.1-100
T4-6	4	.02-200	.02-200	.05-150	.1-100
ADT4-6	4	.07-250	.07-250	.01-220	.015-150
T4-1-2W-KK81	4	10-250	—	—	10-250
T4-1-2W	4	10-250	—	—	10-250
T9-1H-KK81	9	2-90	2-90	3-75	6-50
T9-1H	9	2-90	2-90	3-75	6-50
T9-1-KK81	9	.15-200	.15-200	.3-150	2-40
T9-1	9	.15-200	.15-200	.3-150	2-40
TX9-1	9	1-200	1-200	1.5-160	3-70
T16-1H-KK81	16	7-85	7-85	10-65	15-40
T16-1H	16	7-85	7-85	10-65	15-40
ADT16-6	16	.025-105	.025-105	.045-75	1-40
T16-1-KK81	16	.3-120	.3-120	.7-80	5-20
T16-1	16	.3-120	.3-120	.7-80	5-20
T36-1-KK81	36	.03-20	.03-20	.05-10	.1-5
T36-1	36	.03-20	.03-20	.05-10	.1-5

ELECTRICAL SCHEMATICS





TRANSFORMERS, IF/RF

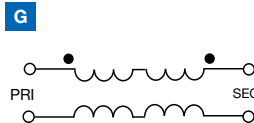
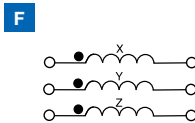
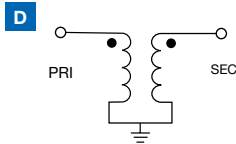
10 kHz to 6.2 GHz Wideband 8 to 700 Ω 50 & 75 Ω

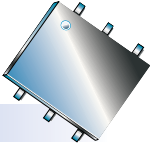


MODEL PREFIX	Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS (dB) Above midband		
			3 dB (MHz)	2 dB (MHz)	1 dB (MHz)
D SCHEMATIC <i>Unbalanced to Unbalanced</i>					
ADT1.5-17	1.5	.5-1700	.5-1700	1-1500	2-1100
TC1.5-1	1.5	.5-2200	.5-2200	1-2000	2-1100
TC1.5-1G2	1.5	.5-2200	.5-2200	1-2000	2-1100
T2-1-KK81	2	.050-600	.050-600	.1-400	.5-200
T2-1	2	.050-600	.050-600	.1-400	.5-200
T3-1-KK81	3	.5-800	.5-800	2-400	—
T3-1	3	.5-800	.5-800	2-400	—
T4-2-KK81	4	.2-600	.2-600	.5-500	2-250
T4-2	4	.2-600	.2-600	.5-500	2-250
T8-1-KK81	8	.15-250	.15-250	.25-200	2-100
T8-1	8	.15-250	.15-250	.25-200	2-100
T14-1-KK81	14	.2-150	.2-150	.5-100	2-50
T14-1	14	.2-150	.2-150	.5-100	2-50
TC4-11	50/12.5	2-1100	—	2-1100	5-700
TC4-11G2	50/12.5	2-1100	—	2-1100	5-700
TC2-112G2	50/25	2-1100	—	2-1100	10-800
■ TC9-1-75	75/8	0.3-475	0.3-475	0.5-450	0.9-370
■ TC9-1-75G2	75/8	0.3-475	0.3-475	0.5-450	0.9-370
F SCHEMATIC <i>Single-ended to balanced with Impedance ratio selection</i>					
T-626-KK81	1:1:1	0.01-10	0.01-10	0.02-5	.04-2
T-626	1:1:1	0.01-10	0.01-10	0.02-5	.04-2
T-622-KK81	1:1:1	0.1-200	0.1-200	0.5-100	5-80
T-622	1:1:1	0.1-200	0.1-200	0.5-100	5-80
T2-613-1-KK81	1:1:2	0.07-200	0.07-200	0.1-100	0.5-50
T2-613-1	1:1:2	0.07-200	0.07-200	0.1-100	0.5-50
G SCHEMATIC <i>Balanced transmission line</i>					
■ ADTL1-4-75	1	0.5-1000	0.5-1000	1-600	5-400
TCN1-10	1	680-1050	—	—	680-1050
TCL1-11	1	600-1100	—	600-1100	700-1000
TCL1-11G2	1	600-1100	—	600-1100	700-1000
TCML1-11	1	600-1100	—	600-1100	700-1000
ADTL1-12	1	20-1200	—	20-1200	50-1000
TC1-15	1	350-1500	—	350-1000	800-1500
TC1-15G2	1	350-1500	—	350-1000	800-1500
■ ADTL1-18-75	1	5-1800	—	5-1800	25-1200
TCL1-19	1	800-1900	800-1900	—	800-1400
TCL1-19G2	1	800-1900	800-1900	—	800-1400
TCML1-19	1	800-1900	800-1900	—	800-1400
TCN1-23	1	1300-2300	—	—	1300-2300
■ TC1-1-13M-75	1	4.5-3000	2000-3000	1000-2000	4.5-1000
TC1-1-13M	1	4.5-3000	2000-3000	1000-2000	4.5-1000
TC1-1-13MG2	1	4.5-3000	2000-3000	1000-2000	4.5-1000
TCN2-14	2	700-1400	—	—	700-1400
ADTL2-18	2	30-1800	30-1800	—	100-1500
TCN2-26	2	1600-2600	—	—	1600-2600
TCN3-11	3	600-1100	—	—	600-1100
TCN4-13	4	650-1250	—	—	650-1250

■ 75 Ω

ELECTRICAL SCHEMATICS





MODEL PREFIX	Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS (dB) Above midband		
			3 dB (MHz)	2 dB (MHz)	1 dB (MHz)

H SCHEMATIC *Balanced transmission line with secondary center tap*

TCN-2-45	2	3300-4500	—	—	3300-4500
TC4-19	4	10-1900	10-1900	20-1000	30-700
TC4-19G2	4	10-1900	10-1900	20-1000	30-700
TCM4-19	4	10-1900	10-1900	20-1000	30-700
TC4-25	4	500-2500	500-2500	700-1500	750-1200
TC4-25G2	4	500-2500	500-2500	700-1500	750-1200
TCM4-25	4	500-2500	500-2500	700-1500	750-1200

J SCHEMATIC *Unbalanced to Balanced*

TCN1-152-75	1	950-1450	—	—	950-1450
NCS1-23	1	1300-2000	—	—	1300-2000
NCS1-292	1	1650-2850	—	—	1650-2850
NCS1-422	1	3300-4200	—	—	3300-4200
NCS1-63	1	4900-6000	—	—	4900-6000
TCN2-122	2	600-1200	—	—	600-1200
NCS2-222	2	1275-2200	—	—	1275-2200
NCS2-33	2	1500-3100	—	—	1500-3100
NCS2-392	2	3000-3900	—	—	3000-3900
NCS2-592	2	4900-5875	—	—	4900-5875
NCS2-622	2	5600-6200	—	—	5600-6200
NCS3-272	3	2250-2725	—	—	2250-2725
TCN4-162	4	720-1600	—	—	720-1600
TCN4-22	4	1200-2200	—	—	1200-2200
NCS4-232	4	1600-2300	—	—	1600-2300
NCS4-272	4	2400-2700	—	—	2400-2700
NCS4-442	4	3300-4400	—	—	3300-4400
NCS4-63	4	4500-6000	—	—	4500-6000

K SCHEMATIC *Balanced Transmission Line*

ADTL1-15-75	1	10-1500	—	10-1500	30-1000
TC1-33-75G2	1	5-3000	2000-3000	1200-2000	5-1200

■ 75 Ω

ELECTRICAL SCHEMATICS

