

# RF TRANSFORMERS WIDEBAND

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12.5 to 1800 Ω

4 kHz to 800 MHz

## SURFACE MOUNT



ADT



T-KK81



TCM



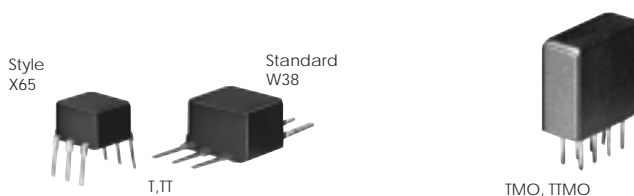
TC



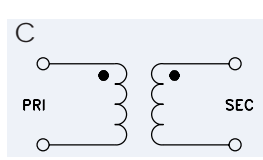
TX

MODEL NO.	Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS *			CASE STYLE	CONNECTION	PRICE \$	
	Note D		3 dB MHz	2 dB MHz	1 dB MHz				Note B
	◆ ADTT1-1*	1	0.3-300	0.3-300	0.4-200	0.5-90	CD542	kr	3.95***
	◆ ADTT1-6*	1	.015-100	.015-100	.02-50	.06-30	CD637	kr	4.95***
	◆ ADTT1.5-1*	1.5	0.25-300	0.25-300	0.3-175	0.5-100	CD636	kr	3.95***
	◆ ADTT3-2*	3	0.2-210	0.2-210	0.3-150	0.5-90	CD636	kr	4.50***
	◆ ADTT4-1*	4	0.2-120	—	—	0.2-120	CD636	kr	3.95***
	◆ TTCM4-4	4	0.5-400	0.5-400	1.3-160	5-100	DB714	ex	1.29*
	◆ TT1-6-KK81	1	.004-300	.004-300	.02-200	.1-50	KK81	ex	6.95
	◆ TT1.5-1-KK81	1.5	.075-500	.075-500	.2-100	1-50	KK81	ex	5.95
	◆ TT2.5-6-KK81	2.5	.01-50	.01-50	.025-25	.05-10	KK81	ex	6.45
	◆ TT4-1-KK81	3	.05-200	.05-200	.2-50	1-30	KK81	ex	5.95
◆ TT4-1A-KK81	4	0.1-300	0.1-300	0.2-250	0.3-180	KK81	ex	6.95	
◆ TT16-1-KK81	16	0.1-45	0.1-45	0.14-35	1-20	KK81	ex	9.95	
◆ TT25-1-KK81	25	.02-30	.02-30	.05-20	.1-10	KK81	ex	9.95	
◆ TT1-6	1	.004-300	.004-300	.02-200	.1-50	◆	ex	6.95	
◆ TT1.5-1	1.5	.075-500	.075-500	.2-100	1-50	◆	ex	5.95	
◆ TT2.5-6	2.5	.01-50	.01-50	.025-25	.05-10	◆	ex	6.45	
◆ TT4-1	3	.05-200	.05-200	.2-50	1-30	◆	ex	5.95	
◆ TT4-1A	4	0.1-300	0.1-300	0.2-250	0.3-180	◆	ex	6.95	
◆ TT16-1	16	0.1-45	0.1-45	0.14-35	1-20	◆	ex	9.95	
◆ TT25-1	25	.02-30	.02-30	.05-20	.1-10	◆	ex	9.95	
◆ TTMO25-1	25	.02-30	.02-30	.05-20	.1-10	A03	ey	11.95	
◆ TTMO1-1	1	.005-100	.005-100	.01-75	.05-40	A03	ey	11.45	
◆ TTMO4-1A	4	0.1-300	0.1-300	0.2-250	0.3-180	A03	ey	13.95	
	◆ ADT1-1*	1	0.15-400	0.15-400	0.2-200	0.3-100	CD542	kq	2.95***
	◆ ADT1.5-2*	1.5	0.3-225	0.3-225	0.5-140	0.7-80	CD636	kg	3.95***
	◆ ADT4-6*	4	0.07-250	.07-250	0.1-220	0.15-150	CD637	kq	4.95***
	◆ ADT16-6*	16	0.25-105	0.25-105	0.45-75	1-40	CD636	kq	4.95***
	◆ T1-1-KK81	1	.15-400	.15-400	.35-200	2-50	KK81	ez	3.25
	◆ T1.18-3-KK81	1.18	0.01-250	0.01-250	0.02-200	0.03-50	KK81	ez	5.65
	◆ T1-6-KK81	1	.01-150	.01-150	.02-100	.05-50	KK81	ez	5.65
	◆ T1.5-1-KK81	1.5	.1-300	.1-300	.2-150	.5-80	KK81	ez	4.45
	◆ T1.5-6-KK81	1.5	.02-100	.02-100	.05-50	0.1-25	KK81	ez	5.65
	◆ T2-1-2W-KK81	2	5-120	—	—	5-120	KK81	ez	5.95
	◆ T2.5-6-KK81	2.5	.01-100	.01-100	.02-50	.05-20	KK81	ez	4.45
	◆ T4-1-2W-KK81	4	10-250	—	—	10-250	KK81	ez	5.95
	◆ T4-6-KK81	4	.02-200	.02-200	.05-150	.1-100	KK81	ez	5.65
	◆ T9-1-KK81	9	.15-200	.15-200	.3-150	2-40	KK81	ez	3.95
	◆ T16-1-KK81	16	.3-120	.3-120	.7-80	5-20	KK81	ez	4.45
	◆ T36-1-KK81	36	.03-20	.03-20	.05-10	.1-5	KK81	ez	6.95
	◆ T1-1H-KK81	1	8-300	8-300	10-200	25-100	KK81	ez	5.95
	◆ T9-1H-KK81	9	2-90	2-90	3-75	6-50	KK81	ez	6.45
	◆ T16-1H-KK81	16	7-85	7-85	10-65	15-40	KK81	ez	6.45
	◆ TCM1-1	1	1.5-500	1.5-500	2.5-400	5-350	DB714	hd	.99*
	◆ TC1-1	1	1.5-500	1.5-500	2.5-400	5-350	AT224	hd	1.19*
	◆ TX1-1	1	0.3-400	0.3-400	0.6-200	2-50	TT240	ez	3.50
	◆ TX1-R5	1	0.8-500	0.8-500	1.2-350	3.2-180	TT240	ez	3.75
	◆ TX1.5-1	1.5	0.25-300	0.25-300	0.3-150	0.5-80	TT240	ez	4.70
	◆ TX9-1	9	1-200	1-200	1.5-160	3-70	TT240	ez	4.70

## Surface Mount □ & Plug-In



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			
T1-1	1	.15-400	.15-400	.35-200	2-50	◇	eZ	3.25
T1.18-3	1.18	0.01-250	0.01-250	0.02-200	0.03-50	◇	eZ	5.65
T1-6	1	.01-150	.01-150	.02-100	.05-50	◇	eZ	5.65
T1.5-1	1.5	.1-300	.1-300	.2-150	.5-80	◇	eZ	4.45
T1.5-6	1.5	.02-100	.02-100	.05-50	0.1-25	◇	eZ	5.65
T2-1-2W	2	5-120	—	—	5-120	◇	eZ	5.95
T2.5-6	2.5	.01-100	.01-100	.02-50	.05-20	◇	eZ	4.45
T4-1-2W	4	10-250	—	—	10-250	◇	eZ	5.95
T4-6	4	.02-200	.02-200	.05-150	.1-100	◇	eZ	5.65
T9-1	9	.15-200	.15-200	.3-150	2-40	◇	eZ	3.95
T16-1	16	.3-120	.3-120	.7-80	5-20	◇	eZ	4.45
T36-1	36	.03-20	.03-20	.05-10	.1-5	◇	eZ	6.95
TO-75	1	10-500	—	10-500	40-250	PP94	fa	6.95
T1-1H	1	8-300	8-300	10-200	25-100	◇	eZ	5.95
T9-1H	9	2-90	2-90	3-75	6-50	◇	eZ	6.45
T16-1H	16	7-85	7-85	10-65	15-40	◇	eZ	6.45
TMO1-02	1	1-800	1-800	2-500	—	A11	fc	9.45
TMO1-1	1	.15-400	.15-400	.35-200	2-50	A11	fb	6.25
TMO2.5-6	2.5	.01-100	.01-100	.02-50	.05-20	A03	fb	7.95
TMO4-6	4	.02-200	.02-200	.05-150	.1-100	A03	fb	7.95
TMO6-1	6	.3-200	.3-200	.5-150	5-50	A11	fb	7.95
TMO9-1	9	.15-200	.15-200	.3-150	2-40	A11	fb	7.95
TMO16-1	16	.3-120	.3-120	.7-80	5-20	A11	fb	7.95



**NOTES:**

- \* FOR B CONFIGURATION:  
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
- ✦ Insertion loss is specified with input at pin 4 and output at pin1 with pins 6 & 3 grounded and pins 2 & 5 open.
- ◆ Aqueous washable.
- \*\* Below .05 MHz, insertion loss is specified for room temperature and above.
- Non-hermetic
- ◇ Two case styles available: Plug-in case style X65; Radial lead case style W38.
- \* Protected under U.S. Patent 6133525
- \*\*\* Price for quantities 10-49.
- \* Quantity 100
- 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 (● .5W rating; ●●● 2W rating)
  - 1b. DC current, 30mA
- 2. For ADT, TC,T,TCM,TT, and TX series, operating temperature range is -20°C to +85°C.

**NSN GUIDE**

MCL NO.	NSN
T1-1-KK81	5950-01-347-0310
T1-1	5950-01-128-3745
T1-1-X65	5950-01-327-5916
T1-1H	5950-01-409-2785
T9-1	5950-01-105-8153
T16-1	5950-01-094-7439
T16-1-X65	5950-01-272-2297
TMO1-1	5950-01-213-3735
TMO2.5-6	5950-01-215-4038
TMO4-6	5950-01-132-8102
TMO6-1	5950-01-364-7803
TMO9-1	5950-01-141-0174
TMO16-1	5950-01-138-4593
TT1-6	4920-01-500-3406
TT1-6-X65	5950-01-272-2298
TT4-1A	5950-01-331-7777
TTMO25-T	5950-01-415-7145

**pin connections**

see case style outline drawings for pin locations

PORT	ex	ey	ez	fa	fb	fc	hd	kq	kr
PRIMARY DOT	4	1	4	1	1	1	6	3	3
PRIMARY	6	5	6	2	5	3	4	1	1
PRIMARY CT	5	3	—	—	—	—	—	—	2
SECONDARY DOT	3	2	3	4	2	2	1	4	4
SECONDARY	1	6	1	3	6	4	3	6	6
SECONDARY CT	2	4	—	—	—	—	—	—	5
GND EXT.	—	—	—	—	—	—	—	—	—
CASE GND	—	7.8	—	—	7.8	7.8	—	—	—
NOT USED	—	—	2.5	—	3.4	5.6	2.5	2.5	—
DEMO BOARD	—	—	—	—	—	—	—	TB-42	TB-42

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