

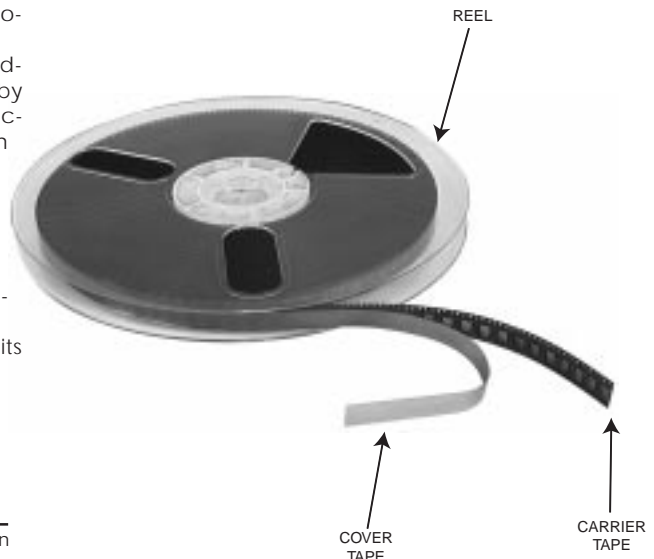
tape and reel packaging for surface mount devices

Design-For-Assembly (DFA) and Design-For-Manufacture (DFM) stand tall alongside CAD/CAM in the quest to optimize profitability, production efficiency and equipment operating usage.

Automation of surface-mount assembly by the use of pick-and-place equipment to handle tiny components has been enhanced by evolutionary improvements in tape-and-reel systems which can accommodate as many as 4000 parts on a 13-inch reel. This results in less frequent component reloading and less downtime of the assembly equipment. Other advantages of tape feeders include versatility or the ability to handle a variety of parts.

Mini-Circuits has kept pace with the trend towards automated assembly and offers RF/Microwave signal-processing components (mixers, amplifiers, transformers, power splitters, switches and others) in tape-and-reel format as shown below.

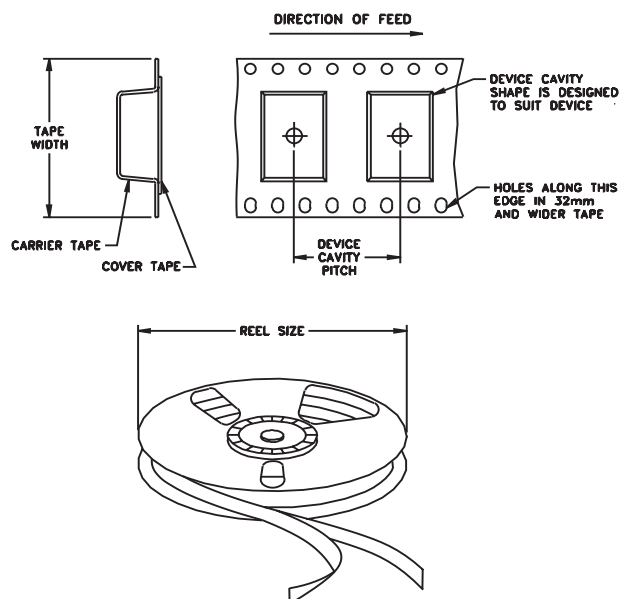
To order a tape-and-reel packaged product, add suffix -TR to its model number.



packaging information⁽¹⁾

Packaging Part No.	Case Style	Tape Width (mm)	Reel Size (inches)	Device Cavity Pitch (mm)	Devices per Reel	Orientation Figure No.
F1	KK81	24	13	12	900	T-001
F2	TT100	16	13	12	500	T-002
F3	TT240	16	13	12	500	T-002
F4	WW107	12	7	8	1000	T-003
F5	YY101	32	13	16	500	T-015
F6	YY161	32	13	16	500	T-015
F7	KKK155	24	13	16	500	T-005
F8	MMM168	8	7	8	3000	T-006
F9	NNN150	24	13	16	500	T-007
F10	QQQ130	24	13	16	500	T-015
F11	RRR137	12	7	8	500	T-009
F12	TTT166	24	13	12	500	T-010
F13	TTT167	24	13	12	500	T-010
F14	AF190	12	7	8	500,1000	T-011A
F15	AG191	16	13	12	500	T-005
F16	XX211(2)	12	7	8	1000,2500	T-015
F17	AT224/577	12	13	8	1000 (3)	T-012
F18	AN213	24	13	16	500	T-013
F19	XX112	16	7	8	500	T-001
F20	CTT248	16	13	12	500	T-002
F21	BG291	32	13	32	200	T-015
F22	BK276	32	13	16	500	T-015
F23	BJ293	24	13	16	500	T-015
F24	BH292	16	13	12	500	T-015
F25	BL301	44	13	32	125	T-015
F26	AF320	12	7	8	1000	T-011B
F27	BK343	32	13	16	500	T-015
F28	BK377	32	13	20	500	T-015
F29	BJ398	24	13	12	500	T-015
F30	QQQ569	32	13	16	500	T-015
F31	CA531	8	7	4	1000	T-001
F32	CB518	16	13	12	500	T-015
F33	CB539	16	13	12	500	T-015
F34	CD541	16	13	12	1000	T-015
F35	CD542	16	13	12	1000	T-015
F36	CG581	24	13	12	500	T-010
F37	CK605	24	13	16	500	T-010
F38	BJ360	32	13	16	500	T-015
F42	CJ608	24	13	16	500	T-015
F43	CL620	16	7	8	500	T-015
F44	CM624	16	13	12	1000	T-015
F45	CD636	16	13	12	1000	T-015
F46	CD637	16	13	12	900	T-015
F47	DB714	12	13	8	1000 (3)	T-008
F48	SM18	24	13	16	1000	T-015
F49	SM1/SM2	16	13	12	1000	T-015
F50	TT241	24	13	12	500	T-002
F51	SM34	24	13	16	500	T-015
F52	SM33	16	13	12	1000	T-015
F53	SM20	32	13	16	500	T-015
F54	SM31	16	13	12	1000	T-014
F55	DF782	12	7	8	1000	T-004

tape illustration



NOTES:

1. For device marking & outline, see case style/outline drawings.
2. For VNA-25, 1000 devices per 7" reel or 2500 devices per 13" reel. For BP models, 1000 devices per reel. MSW/A models, 2500 devices per 13" reel.
3. For other quantities contact Mini-Circuits Sales.



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device orientation

Fig. T-001

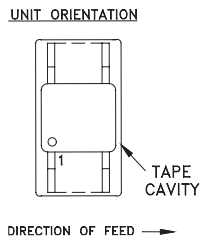


Fig. T-002

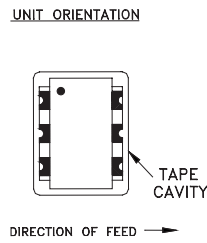


Fig. T-003

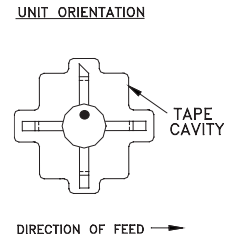


Fig. T-004

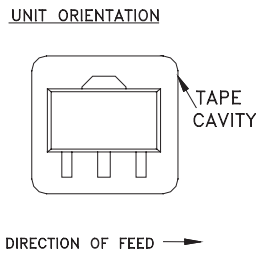


Fig. T-005

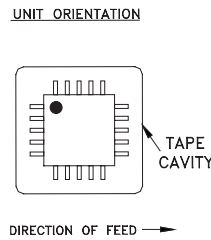


Fig. T-006

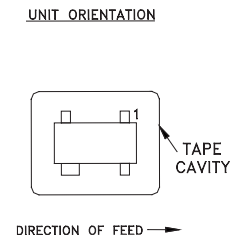


Fig. T-007

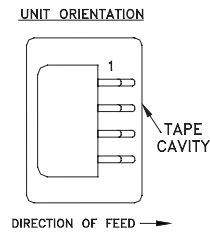


Fig. T-008

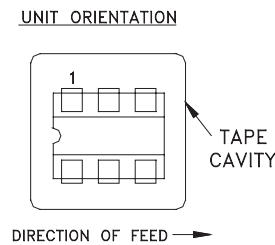


Fig. T-009

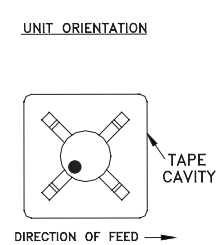


Fig. T-010

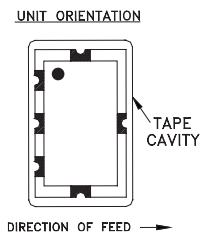


Fig. T-011A

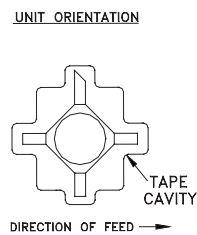


Fig. T-011B

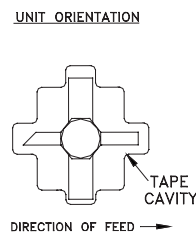


Fig. T-012

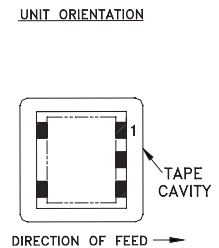


Fig. T-013

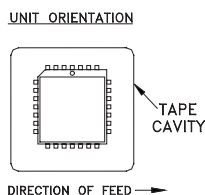


Fig. T-014

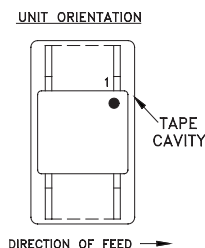
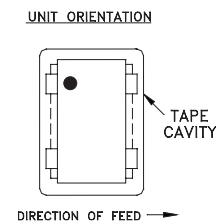


Fig. T-015



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