

APPLICATION NOTE

Tape and Reel Guidelines for Isolators and Circulators

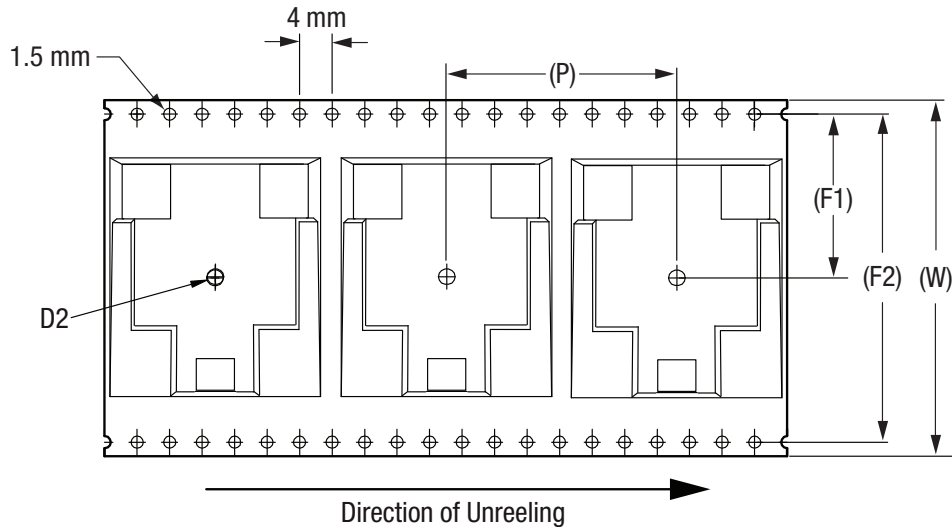
Introduction

This application note defines the standards to which Skyworks complies in relation to the tape and reel dimensions of isolators and circulators.

Mechanical Specifications

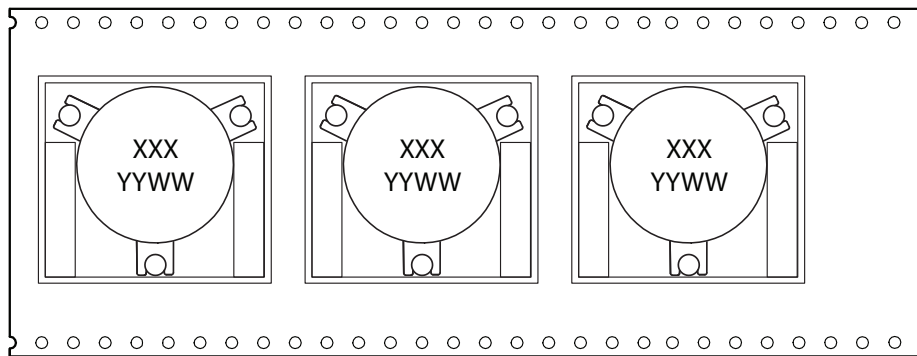
Skyworks carrier tapes shall meet the International Electrotechnical Commission standard IEC 60286-3.

Figure 1 shows the tape dimensions and direction of unreeling. Figure 2 shows the orientation of the isolators and circulators in the tape. Table 1 lists the tape dimensions for each of the packages. Table 2 shows the packing quantities and leader/trailer information for each of the packages. Figure 3 shows the allowable range of movement for components in the tape pocket.



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Figure 1. Tape Dimensions



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Figure 2. Orientation of the Products in the Tape

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Table 1. Tape Dimensions for Each of the Packages

Diameter	Package	W (mm)	F1 (mm)	F2 (mm)	P (mm)
7mm	ODX-00247	24	11.5	N/A	16
7mm	ODX-00260	24	11.5	N/A	16
10mm	ODX-00142	32	14.2	28.5	24
10mm	ODX-00080	32	14.2	28.5	24
10mm	ODX-00085	32	14.2	28.5	24
10mm	ODX-00248	32	14.2	28.5	20
10mm	ODX-00192	32	14.2	28.5	20
10mm	ODX-00282	32	14.2	28.5	20
15mm	ODX-00001	32	14.2	28.4	24
15mm	ODX-00069	32	14.2	28.4	24
15mm	ODX-00055	44	20.2	40.4	24
20mm	ODX-00003	44	20.2	40.4	32
20mm	ODX-00128	44	20.2	40.5	32
20mm	ODX-00076	44	20.2	40.5	28
20mm	ODX-00096	44	20.2	40.5	28
25mm	ODX-00006	44	20.2	40.4	40
25mm	ODX-00007	44	20.2	40.4	40
25mm	ODX-00175	44	20.2	40.4	40
25mm	ODX-00158	56	52.5	26.2	40
25mm	ODX-00033	56	52.5	26.2	40
25mm	ODX-00017	56	52.5	26.2	40

Table 2. Packing Quantity and Leader/Trailer Information for Each of the Packages

Package	Quantity Per Reel	Leader Pockets	Trailer Pockets	Leader Length (mm)	Trailer Length (mm)
ODX-00247	600	22	31	352	496
ODX-00260	600	22	31	352	496
ODX-00248	300	15	21	360	504
ODX-00192	200	15	21	360	504
ODX-00282	200	15	21	360	504
ODX-00142	200	15	21	360	504
ODX-00080	200	15	21	360	504
ODX-00085	200	15	21	360	504
ODX-00001	200	15	21	360	504
ODX-00069	200	15	21	360	504
ODX-00055	200	15	21	360	504
ODX-00003	100	11	16	352	512
ODX-00128	100	11	16	352	512
ODX-00076	100	13	18	364	504
ODX-00096	100	13	18	364	504
ODX-00006	100	9	13	360	520
ODX-00007	100	9	13	360	520
ODX-00175	100	9	13	360	520
ODX-00158	100	9	13	360	520
ODX-00033	100	9	13	360	520
ODX-00017	100	9	13	360	520

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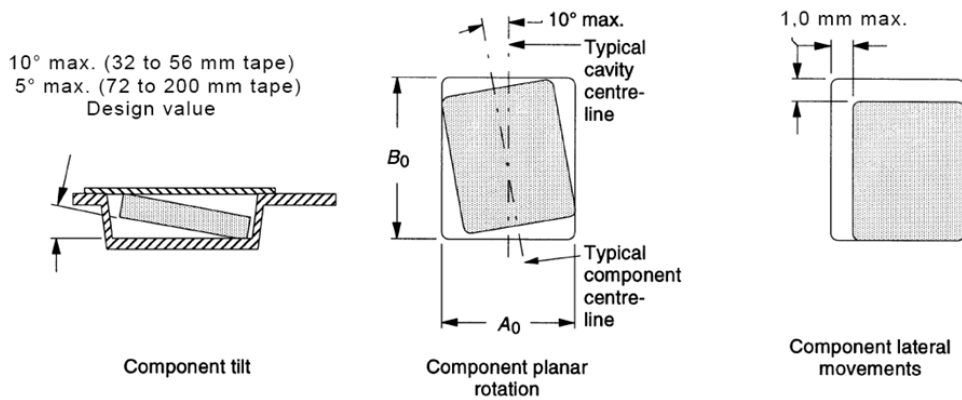


Figure 3. Allowable Component Movements in the Tape Pocket

Material Specifications

The Carrier Tape consists of ESD-safe material with surface resistivity of 10^8 to 10^{11} Ohms/sq.

The Carrier Reel consists of ESD-safe material with surface resistivity of 10^8 to 10^{11} Ohms/sq.

The Cover Tape consists of ESD-safe material with surface resistivity of 10^8 to 10^{11} Ohms/sq.

Carrier Tape Adhesion

The adhesion strength of the carrier tape is between 50 and 100 grams.

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