

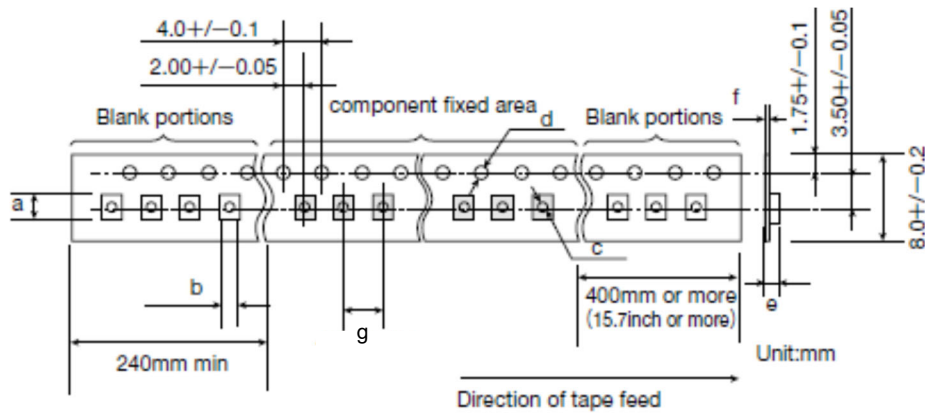
FBAR/SAW Devices for Communications

PACKAGING

① Minimum Quantity

Type	Size [mm]	Code & Quantity [pcs]					
		Standard		Option			
Duplexer	2.0 × 1.6	Y	15000	Z	3000		
	1.8 × 1.4	Y	15000	Z	3000		
	1.6 × 1.2	Y	15000	Z	3000		
Quadplexer	2.5 × 2.0	U	10000	Z	3000		
Triplexer	2.5 × 2.0	U	10000	Z	3000		
Single Filter	2.0 × 1.6	Y	15000	Z	3000		
	1.8 × 1.4	Y	15000	Z	3000		
	1.4 × 1.0	Y	15000	Z	3000		
	1.1 × 0.9	X	10000	Y	15000	J	5000
Dual Filter	1.8 × 1.4	Y	15000	Z	3000		
	1.5 × 1.1	Y	15000	J	5000		
Triple Filter	1.8 × 1.4	Y	15000	Z	3000		

② Tape material



● Taping dimensions

Type	Size[mm]	a	b	c	d	e	f	g
Duplexer	2.0 × 1.6	2.4 ± 0.1	2.0 ± 0.1	1.05 ± 0.05	1.5 + 0.1 / - 0	0.90 - 0.05	0.25 ± 0.05	4.0 ± 0.1
	1.8 × 1.4	2.2 ± 0.1	1.8 ± 0.1	0.5 ± 0.05	1.55 ± 0.05	0.8 ± 0.1	0.30 ± 0.05	4.0 ± 0.1
	1.6 × 1.2	1.9 ± 0.05	1.5 ± 0.05	0.5 ± 0.05	1.5 + 0.1 / - 0	0.55 ± 0.05	0.20 ± 0.05	4.0 ± 0.1
Quadplexer	2.5 × 2.0	2.8 ± 0.1	2.3 ± 0.1	1.5 + 0.1 / - 0	1.5 + 0.1 / - 0	1.0 + 0.1 / - 0.0	0.25 ± 0.05	4.0 ± 0.1
Triplexer	2.5 × 2.0	2.8 ± 0.1	2.3 ± 0.1	1.5 + 0.1 / - 0	1.5 + 0.1 / - 0	1.0 + 0.1 / - 0.0	0.25 ± 0.05	4.0 ± 0.1
Single Filter	2.0 × 1.6	2.4 ± 0.1	2.0 ± 0.1	1.05 ± 0.05	1.5 + 0.1 / - 0	0.90 - 0.05	0.25 ± 0.05	4.0 ± 0.1
	1.8 × 1.4	2.2 ± 0.1	1.8 ± 0.1	0.5 ± 0.05	1.55 ± 0.05	0.8 ± 0.1	0.30 ± 0.05	4.0 ± 0.1
	1.4 × 1.0	1.7 ± 0.1	1.3 ± 0.1	0.5 ± 0.05	1.5 + 0.1 / - 0	0.63 ± 0.05	0.20 ± 0.05	4.0 ± 0.1
	1.1 × 0.9	1.3 ± 0.1	1.1 ± 0.1	0.5 ± 0.05	1.55 ± 0.05	0.63 ± 0.05	0.20 ± 0.05	2.0 ± 0.05
Dual Filter	1.8 × 1.4	2.2 ± 0.1	1.8 ± 0.1	0.5 ± 0.05	1.55 ± 0.05	0.8 ± 0.1	0.30 ± 0.05	4.0 ± 0.1
	1.5 × 1.1	1.8 ± 0.1	1.4 ± 0.1	0.5 ± 0.05	1.5 + 0.1 / - 0	0.7 ± 0.1	0.25 ± 0.05	4.0 ± 0.1
Triple Filter	1.8 × 1.4	2.2 ± 0.1	1.8 ± 0.1	0.5 ± 0.05	1.55 ± 0.05	0.8 ± 0.1	0.30 ± 0.05	4.0 ± 0.1

Unit: mm

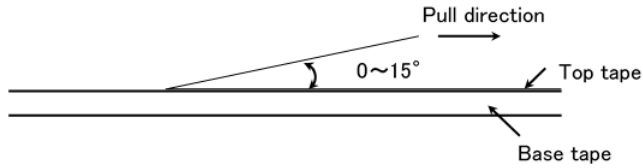
● Material of Tape (Conductive)

Tape : Polystyrene

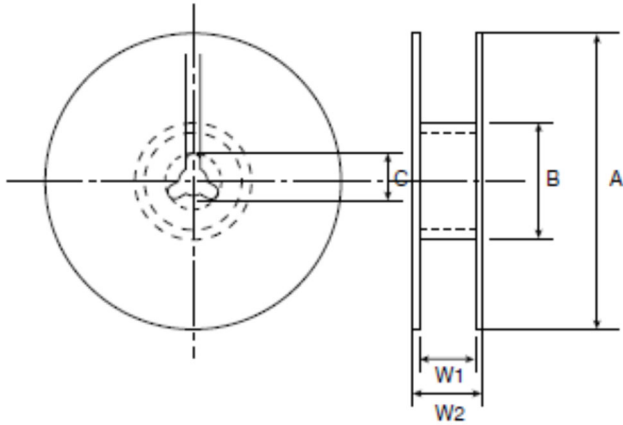
Top cover tape : Polyethylene terephthalate (PET) and Polyethylene

③ Top Tape Strength

The top tape requires a peel-off force of 0.1 to 1.0N in the direction of the arrow as illustrated below.



④ Reel size



● Material of Reel

Material : Polystyrene + Carbon

Characteristics: Conform to EIAJ-ET-7200A

Color: Black

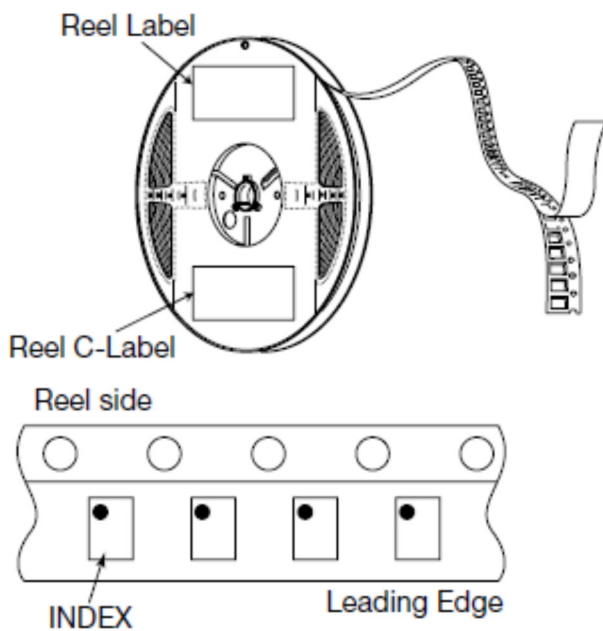
Surface resistance (reference value) : $10^9 \Omega/\text{sq}$ Max.

Code	Quantity	A	B	C	W1	W2
X	10,000 pcs	$\phi 180.0 +0.0/-1.5$	$\phi 66.0 \pm 0.5$	$\phi 13.0 \pm 0.2$	$9.0 +1.0/-0.0$	11.4 ± 1.0
U	10,000 pcs	$\phi 330.0 \pm 2.0$	$\phi 100.0 \pm 1.0$	$\phi 13.0 \pm 0.2$	9.4 ± 1.0	13.4 ± 1.0
Y	15,000 pcs	$\phi 330.0 \pm 2.0$	$\phi 100.0 \pm 1.0$	$\phi 13.0 \pm 0.2$	9.4 ± 1.0	13.4 ± 1.0
J	5,000 pcs	$\phi 180.0 +0.0/-1.5$	$\phi 66.0 \pm 0.5$	$\phi 13.0 \pm 0.2$	$9.0 +1.0/-0.0$	11.4 ± 1.0
Z	3,000 pcs	$\phi 180.0 +0.0/-1.5$	$\phi 66.0 \pm 0.5$	$\phi 13.0 \pm 0.2$	$9.0 +1.0/-0.0$	11.4 ± 1.0

Unit : mm

⑤ Reel label and Reel C-Label sticking and Winding method

● Surface



▶ This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (<http://www.ty-top.com/>).