Notice for TAIYO YUDEN Products

Please read this notice before using the TAIYO YUDEN products.

PREMINDERS

Product information in this catalog is as of October 2018. All of the contents specified herein are subject to change without notice due to technical improvements, etc. Therefore, please check for the latest information carefully before practical application or use of our products.

Please note that TAIYO YUDEN shall not be in any way responsible for any damages and defects in products or equipment incorporating our products, which are caused under the conditions other than those specified in this catalog or individual product specification sheets.

- Please contact TAIYO YUDEN for further details of product specifications as the individual product specification sheets are available.
- Please conduct validation and verification of our products in actual condition of mounting and operating environment before using our products.
- The products listed in this catalog are intended for use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment including, without limitation, mobile phone, and PC). Please be sure to contact TAIYO YUDEN for further information before using the products for any equipment which may directly cause loss of human life or bodily injury (e.g., transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment, disaster prevention equipment, medical equipment classified as Class I, II or III by IMDRF, highly public information network equipment including, without limitation, telephone exchange, and base station).

Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment, medical equipment classified as Class IV by IMDRF, nuclear control equipment, undersea equipment, military equipment).

When our products are used even for high safety and/or reliability-required devices or circuits of general electronic equipment, it is strongly recommended to perform a thorough safety evaluation prior to use of our products and to install a protection circuit as necessary.

Please note that unless you obtain prior written consent of TAIYO YUDEN, TAIYO YUDEN shall not be in any way responsible for any damages incurred by you or third parties arising from use of the products listed in this catalog for any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.

- Information contained in this catalog is intended to convey examples of typical performances and/or applications of our products and is not intended to make any warranty with respect to the intellectual property rights or any other related rights of TAIYO YUDEN or any third parties nor grant any license under such rights.
- Please note that the scope of warranty for our products is limited to the delivered our products themselves and TAIYO YUDEN shall not be in any way responsible for any damages resulting from a fault or defect in our products. Notwithstanding the foregoing, if there is a written agreement (e.g., supply and purchase agreement, quality assurance agreement) signed by TAIYO YUDEN and your company, TAIYO YUDEN will warrant our products in accordance with such agreement.
- The contents of this catalog are applicable to our products which are purchased from our sales offices or authorized distributors (hereinafter "TAIYO YUDEN's official sales channel"). Please note that the contents of this catalog are not applicable to our products purchased from any seller other than TAIYO YUDEN's official sales channel.
- Caution for Export
 Some of our products listed in this catalog may require specific procedures for export according to "U.S. Export Administration Regulations", "Foreign Exchange and Foreign Trade Control Law" of Japan, and other applicable regulations. Should you have any questions on this matter, please contact our sales staff.

FBAR/SAW DEVICES for MOBILE COMMUNICATIONS >





■PARTS NUMBER

(A)) Pre	vio	us Ru	le (ap	plied p	produ	cts re	gistere	ed on M	M arch	31, 2	2010	or bef	ore.)								
F	- ,	Α	R	_	D	5	Р	Е	-	8	8	1	М	5	0	_	Р	3	Е	Z	_	Z
	(1)		2	(,	3)	<u>(4)</u>	(5)	6			(7)			8	(9	9)	(1	10)	(11)	(12)

1)Family

2 Common sign

3Series name Code Product Frequency Range[MHz] D5 700 - 1000 Duplexer D6 Duplexer 1000 - 5000 J5 700 - 1000 Triplexer F5 Device 700 - 1000 1000 - 5000 F6 Device G5 **Dual Devices** 700 - 1000 G6 **Dual Devices** 1000 - 5000

4Package code

⑤Product code

6 Common sign

7Frequency

8 Common sign

Internal code

10Internal code

①Custom code 12 Packaging

(B) N	lew R	ule (ap	plied t	to pro	ducts	s regi	stere	d on	April 1	, 201	0 or la	ater.)		
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7	10			
	Ne	ries	na	me

Code	Product	Frequency Range[MHz]
D5	Duplexer	700 – 1000
D6	Duplexer	1000 - 5000
J5	Triplexer	700 – 1000
F5	Device	700 – 1000
F6	Device	1000 - 5000
G5	Dual Devices	700 – 1000
G6	Dual Devices	1000 - 5000
K6	Quadplexer	1000 - 5000

^{*}For further details, please contact to TAIYO YUDEN CO., LTD.

②Package code

3Product code

4Frequency

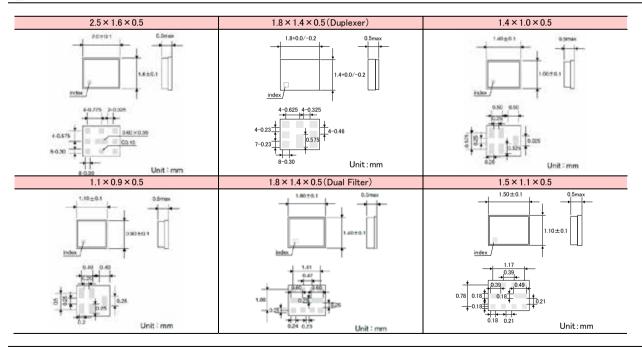
(5)Internal code

6 Internal code

7Custom code

8 Packaging

■EXTERNAL DIMENSIONS



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Duplexers System	Part number	Dealess Circling 1	Insertion Loss [dB]	Attanuation Fund	Remarks
Band 1		Package Size[mm]			Remarks
Sand I	D6DA2G140K2A4 D6DA2G140K2A7	1.8 × 1.4 × 0.5 max. 1.8 × 1.4 × 0.5 max.	1.8/1.8 1.6/1.7	56/51 58/59	
					D . D 100
	D6PE2G140P3AW	2.0 × 1.6 × 0.5 max.	1.5/1.6	59/47	Rx : Bal.100ohm
	D6RB2G140E1AJ	1.8 × 1.4 × 0.5 max.	1.7/1.8	57/48	Rx : Bal.100ohm
	D6RB2G140E1AL	1.8 × 1.4 × 0.47 max.	1.7/1.8	57/51	Rx : Bal.100ohm
Band 2	D6PF1G960M3B6	2.0 × 1.6 × 0.57 max.	2.2/2.7	55/52	
	D6PF1G960M3B9	2.0 × 1.6 × 0.57 max.	2.2/2.7	57/52	
	D6DA1G960K2B1	1.8 × 1.4 × 0.57 max.	1.9/2.5	54/54	
	D6DA1G960K2B2	1.8 × 1.4 × 0.57 max.	1.8/2.3	55/55	
	D6PE1G960P3BY	2.0 × 1.6 × 0.57 max.	2.0/3.1	57/53	Rx : Bal.100ohm
	D6PE1G960P3BP	$2.0 \times 1.6 \times 0.57$ max.	2.3/3.0	56/52	Rx : Bal.100ohm
	D6RB1G960E1HB	1.8 × 1.4 × 0.6 max.	2.1/2.9	56/55	Rx : Bal.100ohm
land 3	D6DA1G842K2C4	1.8 × 1.4 × 0.6 max.	2.3/2.1	56/56	
	D6DA1G842K2C7	1.8 × 1.4 × 0.38 max.	1.8/1.9	60/56	
Band 4	D6DA2G132K2D4	1.8 × 1.4 × 0.5 max.	1.5/1.7	57/55	
	D6DA2G132K2D9	1.8 × 1.4 × 0.5 max.	1.6/1.8	60/56	
	D6PE2G132P3DWB	2.0 × 1.6 × 0.5 max.	1.8/1.8	55/50	Rx : Bal.100ohm
	D6RB2G132E1DF	1.8 × 1.4 × 0.5 max.	1.6/1.8	62/54	Rx : Bal.100ohm
and 5	FAR-D5PF-881M50-M3E9	2.0 × 1.6 × 0.5 max.	1.5/1.8	58/51	
	D5DA881M5K2E4	1.8 × 1.4 × 0.5 max.	1.4/1.7	58/59	
	FAR-D5PE-881M50-P3EZ	2.0 × 1.6 × 0.5 max.	1.4/1.7	59/52	Rx : Bal.100ohm
	D5RB881M5E1BH	1.8 × 1.4 × 0.47 max.	1.4/1.7	58/52	Rx : Bal.100ohm
Band 7	D6HL2G655DL06	2.0 × 1.6 × 0.54 max.	2.1/2.3	53/57	FBAR
	D6HQ2G655DP01	1.8 × 1.4 × 0.54 max.	2.3/2.2	58/57	FBAR
	D6HQ2G655DP02	1.8 × 1.4 × 0.54 max.	2.0/2.0	58/55	FBAR 2HD Improved
	D6HQ2G655DP03	1.8 × 1.4 × 0.54 max.	2.0/2.0	61/56	
	D6DA2G655K2F1	1.8 × 1.4 × 0.44 max.	2.1/2.2	50/50	
	D6HN2G655BN54	2.0 × 1.6 × 0.54 max.	1.8/2.6	55/56	Rx : Bal.100ohm. FBAR WLAN coexistence Ver.
	D6HP2G655BP11	1.8 × 1.4 × 0.54 max.	1.8/2.4	56/56	Rx : Bal.100ohm, FBAR
and 8	D5PF942M5M3G6	2.0 × 1.6 × 0.5 max.	2.1/2.1	57/55	for LTE
and o	D5PF942M5M3G9	2.0 × 1.6 × 0.5 max.	1.9/2.2	60/52	101 ETE
	D5DA942M5K2G6	1.8 × 1.4 × 0.5 max.	1.7/1.8	58/59	
	D5DA942M5K2G0	1.8 × 1.4 × 0.6 max.	1.3/1.5	58/56	for LTE
	D5PE942M5R232	2.0 × 1.6 × 0.5 max.	1.8/2.2	60/55	Rx : Bal.100ohm
	D5RB942M5E1CF	1.8 × 1.4 × 0.5 max.	1.5/1.9	56/51	Rx : Bal.100ohm
land 11	D6DA1G485K2W1	1.8 × 1.4 × 0.44 max.	1.2/1.3	58/60	I.v. Dai.1000IIII
Band 12	D5DA7G485K2W1	1.8 × 1.4 × 0.5 max.	1.65/1.65	63/58	
Band 13	D5PE782M0M3P9	2.0 × 1.6 × 0.5 max.	1.6/2.0	64/55	
Janu 13					
Band 14	D5DA782M0K2J6 D5DA793M0K2K2	1.8 × 1.4 × 0.5 max. 1.8 × 1.4 × 0.44 max.	1.9/1.7 1.2/2.2	58/61 50/50	
Band 14	D5PF740M0M3R9		1.2/2.2	61/66	
sand I/		2.0 × 1.6 × 0.5 max.			
1.00	D5DA740M0K2L4	1.8 × 1.4 × 0.5 max.	1.25/1.65	65/60	
land 20	D5FC847M0K3NE	1.8 × 1.4 × 0.44 max.	1.8/1.8	55/56	
Band 21	D6DA1G503K2Y1	1.8 × 1.4 × 0.44 max.	1.3/1.3	60/60	
	D6PE1G503P3KW	2.0 × 1.6 × 0.5 max.	1.6/2.0	55/56	Rx : Bal.100ohm
Band 25	D6HQ1G962DP35	1.8 × 1.4 × 0.57 max.	2.5/2.6	57/57	FBAR
Band 26	D5PF876M5M3U9	2.0 × 1.6 × 0.5 max.	2.0/1.9	56/49	
	D5DA876M5K2P6	1.8 × 1.4 × 0.6 max.	1.3/2.0	60/57	
	D5PE876M5P3UZ	2.0 × 1.6 × 0.5 max.	2.2/2.6	60/49	Rx : Bal.100ohm
Band 28	D5PF773M0M3Y6	$2.0 \times 1.6 \times 0.5$ max.	1.8/2.3	60/53	Block A

Multiplexers

Band 66

D5FC773M0K3NC

D5PF788M0M3Y9

D5FC788M0K3ND

D6DA2G155K2T2

System	Part number	Package Size[mm]	Insertion Loss[dB]	Attenuation[dB]	Remarks
Band 13+17 Triplexer	J5NA782M0P1H6	2.5 × 2.0 × 0.6 max.	1.6/1.9 1.9/1.9	60/49 53/55	
Band 1+3 Quadplexer	K6QZ2G140Q3ZA	2.5 × 2.0 × 0.8 max.	1.9/2.0 1.7/2.3	56/55 56/54	

2.5/2.6

1.8/2.4

1.8/1.9

2.0/2.0

57/57 60/54

63/60

57/54

Block B

 $1.8 \times 1.4 \times 0.44$ max.

 $2.0 \times 1.6 \times 0.5$ max.

1.8 × 1.4 × 0.44 max.

1.8 × 1.4 × 0.44 max.

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■W-CDMA	/ITC	CDMA	2000	Filtoro

System	Part number	Package Size[mm]	Insertion Loss[dB]	Attenuation[dB]	Remarks
Band 1 Tx	F6QA1G950M2AA	1.1 × 0.9 × 0.5 max.	1.8	38	
Band 1, Band 4 Rx	F6QA2G140M2AM	1.1 × 0.9 × 0.5 max.	1.9	46	
	F6QG2G140P2KA	1.1 × 0.9 × 0.5 max.	1.7	55	100ohm output
Band 2 Tx BC1(PCS) Tx	F6QA1G880M2AQ	1.1 × 0.9 × 0.5 max.	1.7	20	
Band 2 Rx BC1(PCS) Rx	F6QA1G960M2AP	1.1 × 0.9 × 0.5 max.	2.8	39	High Att.
	F6QG1G960P2KT	1.1 × 0.9 × 0.5 max.	2.8	44	100ohm output
Band 3 Tx	F6QA1G747M2QS	1.1 × 0.9 × 0.5 max.	2.1	22	
Band 3 Rx	F6QA1G842M2AN	1.1 × 0.9 × 0.5 max.	2.0	38	
	F6QG1G842P2KD	1.1 × 0.9 × 0.5 max.	3.2	45	100ohm output
Band 5 Tx BC0 Tx	F5QA836M5M2AR	1.1 × 0.9 × 0.5 max.	1.9	45	High Att.
Band 5 Rx BC0 Rx	F5QA881M5M2AU	1.1 × 0.9 × 0.5 max.	1.3	51	Low Loss/high Att.
	F5QG881M5P2KG	1.1 × 0.9 × 0.5 max.	1.5	56	100ohm output
Band 7 Rx	F6QA2G655M2QH	1.1 × 0.9 × 0.5 max.	2.5	38	
	F6QG2G655P2KE	1.1 × 0.9 × 0.5 max.	2.5	52	100ohm. High Att.
Band 8 Tx	F5QA897M5M2AC	1.1 × 0.9 × 0.5 max.	2.3	18	=
Band 8 Rx	F5QA942M5M2AW	1.1 × 0.9 × 0.5 max.	2.0	48	for LTE
	F5QG942M5P2KB	1.1 × 0.9 × 0.5 max.	2.2	56	100ohm output
	F5QG942M5P2KF	1.1 × 0.9 × 0.5 max.	2.2	60	100ohm output for LTE
Band 12 Rx	F5QA737M5M2QN	1.1 × 0.9 × 0.5 max.	1.6	53	
	F5QG737M5P2KK	1.1 × 0.9 × 0.5 max.	1.6	55	100ohm output
Band 13 Tx	F5QA782M0M2AZ	1.1 × 0.9 × 0.5 max.	1.5	56	
Band 13 Rx	F5QA751M0M2QM	1.1 × 0.9 × 0.5 max.	1.9	50	
Band 14	F5QA763M0M2QL	1.1 × 0.9 × 0.5 max.	2.2	49	
Band 17 Tx	F5QA710M0M2AY	1.1 × 0.9 × 0.5 max.	1.3	33	
Band 17 Rx	F5QG740M0P2KH	1.1 × 0.9 × 0.5 max.	1.4	65	100ohm output
Band 20 Rx	F5QA806M0M2QE	1.1 × 0.9 × 0.5 max.	2.7	41	
Band 21 Rx	F6QA1G503M2QF	1.1 × 0.9 × 0.5 max.	2.0	52	
Band 25 Tx	F6QA1G882M2AS	1.1 × 0.9 × 0.5 max.	1.8	23	
Band 26 Rx	F5QA876M5M2QP	1.1 × 0.9 × 0.5 max.	2.2	49	
	F5QG876M5P2KQ	1.1 × 0.9 × 0.5 max.	2.2	59	100ohm output
Band 28 Rx	F5QA773M0M2QC	1.1 × 0.9 × 0.5 max.	2.1	52	Block A
	F5QA788M0M2QB	1.1 × 0.9 × 0.5 max.	2.0	52	Block B
Band 29 Rx	F5BA722M5M6UW	1.1 × 0.9 × 0.44 max.	1.6	-	
Band 30 Rx	F6QP2G355R2SE	1.1 × 0.9 × 0.5 max.	2.1	50	
Band 32 Rx	F6QA1G474H2JS	1.1 × 0.9 × 0.5 max.	1.8	-	
Band 66 Rx	F6BA2G155M6UU	1.1 × 0.9 × 0.44 max.	1.7	45	
Band 67 Rx	F5QA748M0M2WF	1.1 × 0.9 × 0.5 max.	1.5	-	

●TDD Filters(TD-SCDMA / TD-LTE)

TDD Filters (TD-SCDI					
System	Part number	Package Size[mm]	Insertion Loss[dB]	Attenuation[dB]	Remarks
Band 34 TRx	F6FC2G017H4PC	$1.1 \times 0.9 \times 0.44$ max.	1.1	-	Input Power +29dBm(TDD:50% Duty)
Band 34 Rx	F6QP2G017R2SF	$1.1 \times 0.9 \times 0.5$ max.	1.3	-	
Bnad 38 Tx	F6KA2G595A4VL	$1.4 \times 1.0 \times 0.5$ max.	1.5	-	Input Power +29dBm
Bnad 38 Rx	F6QA2G595M2QK	$1.1 \times 0.9 \times 0.5$ max.	1.9	-	
	F6QB2G595P2BS	1.1 × 0.9 × 0.5 max.	2.0	-	Balanced 100ohm
Band 39 TRx	F6FC1G900H4PB	$1.1 \times 0.9 \times 0.44$ max.	1.1	-	Input power +29dBm (Duty 50%)
Band 39 Rx	F6QA1G900M2WD	1.1 × 0.9 × 0.5 max.	1.5	-	
Band 40 Tx	F6HF2G350AF41	1.4 × 1.0 × 0.6 max.	2.3	-	Input Power +29dBm FBAR
	F6HH2G350EH71	1.1 × 0.9 × 0.44 max.	1.6	-	Input Power +29dBm CW FBAR
	F6HH2G350EH75	1.1 × 0.9 × 0.44 max.	1.4	-	Input power +30.0dBm TD-LTE 40%duty 5MHz 1RB FBAR
Band 40 Rx	F6QA2G350M2QA	1.1 × 0.9 × 0.5 max.	2.2	-	
	F6QB2G350P2BH	1.1 × 0.9 × 0.5 max.	2.8	-	Balanced 100ohm
Band 41 TRx	F6KA2G605A4LA	1.4 × 1.0 × 0.5 max.	2.4	-	Unbal High power design 2555-2655MHz BW100MHz
	F6FC2G600H4PA	1.1 × 0.9 × 0.44 max.	2.1	-	Unbal High power design & HPUE for CMCC 2535-2655MHz BW120MHz
	F6FC2G595H4PD	1.1x0.9x0.44 max.	1.7	-	Unbal Improved IL High power design & HPUE for CMCC 2535-2655MHz BW120MHz
	F6HP2G593AP20	2.0 × 1.6 × 0.6 max.	2.9	-	Unbal High power design 2496-2690MHz BW194MHz FBAR
	F6HQ2G593AP31	1.8 × 1.4 × 0.57 max.	2.7	-	Unbal High power design & HPUE for Sprint 2496-2690MHz BW194MHz FBAR

●TDD Dual Filters (TD-SCDMA / TD-LTE)

System	Part number	Package Size[mm]	Insertion Loss[dB]	Attenuation[dB]	Remarks
Band 39 Rx + 41(BW100MHz) TRx(Common Input)	G6KJ2G605D4AB	1.8 × 1.4 × 0.5 max.	2.1/2.6		B41 High power design B41 (2555–2655MHz BW100MHz) for CMCC CA
Band 41 Rx + 39(BW100MHz)	G6QN2G605M2RM	1.5 × 1.1 × 0.5 max.	2.2/1.3	-	

GPS

System	Part number	Package Size[mm]	Insertion Loss[dB]	Attenuation[dB]	Remarks
GPS	F6QA1G575H2JF	$1.1 \times 0.9 \times 0.5$ max.	0.96	-	Low loss, High Att.
GPS (GNSS)	F6QA1G585M2AT	$1.1 \times 0.9 \times 0.5$ max.	1.4	-	-
	F6QB1G585P2BQ	$1.1 \times 0.9 \times 0.5$ max.	1.7	-	100ohm output
GPS+GLONASS+Galileo+Compass	F6QA1G581M2QZ	$1.1 \times 0.9 \times 0.5$ max.	1.4	-	
	F6QA1G582H2JM	$1.1 \times 0.9 \times 0.5$ max.	1.8	-	Ladder High Att.
	F6BG1G582R6TT	$1.1 \times 0.9 \times 0.44$ max.	1.7	-	100ohm output

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Others

System	Part number	Package Size[mm]	Insertion Loss[dB]	Attenuation[dB]	Remarks
ISM900 (B.W.26MHz)	FAR-F5QA-915M00-M2AK	1.1 × 0.9 × 0.5 max.	1.8	-	
Wireless LAN / Bluetooth®	FAR-F6KA-2G4418-A4VA	1.4 × 1.0 × 0.5 max.	3.0	-	+23dBm
	FAR-F6KA-2G4500-A4VD	1.4 × 1.0 × 0.5 max.	1.9	-	2400-2500MHz,+19dBm
	F6KA2G436A4VE	1.4 × 1.0 × 0.5 max.	2.5	-	2400-2472MHz,+24dBm 2.5GHz High Att (for MTK)
	F6KA2G466A4VJ	1.4 × 1.0 × 0.5 max.	2.8	=	2432-2500MHz,+24dBm 2.3GHz High Att (for MTK)
	F6HF2G441AF46	1.4 × 1.0 × 0.6 max.	1.6	=	2402.5-2481.5MHz Input Power +28dBm FBAR
	F6HG2G441EG65	1.1 × 0.9 × 0.5 max.	1.3	=	FBAR
	F6HG2G441EG66	1.1 × 0.9 × 0.5 max.	1.3	=	High Att. @2.38GHz FBAR
	F6FC2G441H4PE	1.1 × 0.9 × 0.44 max.	1.0	-	SAW

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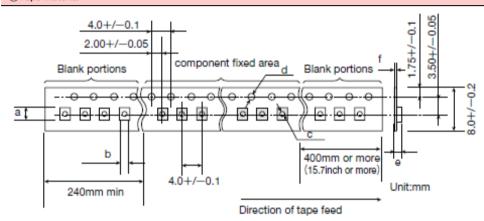
FBAR/SAW DEVICES for MOBILE COMMUNICATIONS

PACKAGING

1 Minimum Quantity

Туре	Size [mm]				Code & Qu	antity [pcs]			
	2.5 × 2.0	Z	3000			U	10000		
Duplexer	2.0 × 1.6	Z	3000					Υ	15000
	1.8 × 1.4	Z	3000					Υ	15000
Quadplexer	2.5 × 2.0	Z	3000			U	10000		
Triplexer	2.5 × 2.0	Z	3000			U	10000		
	2.0 × 1.6	Z	3000					Υ	15000
Single Filter	1.8 × 1.4	Z	3000					Υ	15000
Sirigle Filter	1.4 × 1.0	Z	3000					Υ	15000
	1.1 × 0.9			J	5000			Υ	15000
Dual Filter	1.8 × 1.4	Z	3000					Υ	15000
Dual Filter	1.5 × 1.1			J	5000			Υ	15000

2Tape material



Taping dimensions

Туре	Size [mm]	а	b	С	d	е	f
Duplexer	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
	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
	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
	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
Cinala Filton	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
Single Filter	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
	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
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
	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

Unit:mm

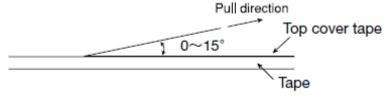
Material of Tape (Conductive)

Tape: Polystyrene

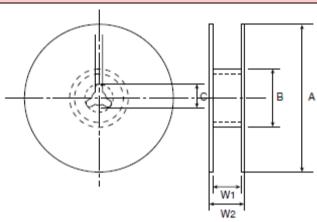
Top cover tape : Polyethylene terephthalate (PET) and Polyethylene

③Top 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.



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Material of Reel

Material : Polystyrene + Carbon

Characteristics: Conform to EIAJ-ET-7200A

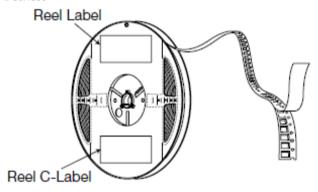
Color : Black

Surface resistance (reference value) :109 Ω/sq Max.

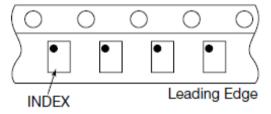
	o (i oroi orio o raido)	1100 110 04 1110/11				
Code	Quantity	Α	В	С	W1	W2
Z	3,000 pcs	<i>ϕ</i> 180.0 +0.0/−1.5	<i>ϕ</i> 66.0 ±0.5	ϕ 13.0 \pm 0.2	9.0 +1.0/-0.0	11.4 ±1.0
J	5,000 pcs	<i>ϕ</i> 180.0 +0.0/−1.5	<i>ϕ</i> 66.0 ±0.5	ϕ 13.0 \pm 0.2	9.0 +1.0/-0.0	11.4 ±1.0
U	10,000 pcs	ϕ 330.0 ± 2.0	ϕ 100.0 ± 1.0	ϕ 13.0 \pm 0.2	9.4 ±1.0	13.4 ±1.0
Υ	15,000 pcs	ϕ 330.0 ± 2.0	ϕ 100.0 ± 1.0	ϕ 13.0 \pm 0.2	9.4 ±1.0	13.4 ±1.0
						Unit:mm

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

Surface



Reel side



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FBAR/SAW DEVICES for MOBILE COMMUNICATIONS

RELIABILITY DATA

1. Terminal stregth						
Specified Value	No damage to be found.					
Test Methods and Remarks	Bend width 4mm, hold for 5±1 sec. Pressure 10 R340 Board 1.6±0.20 Solder Device Unit: mm					
2. Mechanical shock						
Specified Value						
	After testing, meet the specified characteristics at a room temperature.					
Test Methods and Remarks	Apply 14700m/s ² for 0.5ms 5 times for each of 6 directions.					
3. Vibration						
Specified Value	After testing, meet the specified characteristics at a room temperature.					
Test Methods and Remarks	With 1.5 mm of whole amplitude at 10 to 55 Hz of frequency, and 98m/s^2 of acceleration at 55 to 500Hz, apply a vibration for 2 hours for each of 3 directions, period is 15 minutes(10 to 500 to 10Hz)					
4. Drop 1						
Specified Value	After testing, meet the specified characteristics at a room temperature.					
Test Methods and Remarks	Drop 3 times onto concrete floor from the height of 1.0m.					
5. Drop 2						
Specified Value	After testing, meet the specified characteristics at a room temperature.					

Test Methods and

Remarks

6. Temperature cyc	6. I emperature cycling		
Specified Value	fter testing, meet the specified characteristics at a room temperature.		
Test Methods and Remarks	Temp. range −40 to +100°C. 500cycle.		

Drop with 150g weight 3 times in each 6 direction onto concrete floor from the height of 1.8m.

7. Static humidity

Specified Value	After testing, meet the specified characteristics at a room temperature.		
Test Methods and	SAW : +85°C, 90% to 95%RH, apply DC5V, 1000hours.		
Remarks	FBAR : +85°C, 90% to 95%RH, apply DC0V, 1000hours.		

8. High temperature storage life

Specified Value	fter testing, meet the specified characteristics at a room temperature.				
Test Methods and Remarks	+100°C, 1000hours.				

9. Low temperature storage life

Specified Value	After testing, meet the specified characteristics at a room temperature.			
Test Methods and Remarks	−40°C, 1000hours.			

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10. High Temperatu	10. High Temperature Bias				
Specified Value	After testing, meet the specified characteristics at a room temperature.				
Test Methods and Remarks	Please refer to individual specifications in detail.				
11. Solderbility					
Specified Value	More than 90% of area of terminals to be covered with the solder. A change of the remarkable appearance do not have it.				

Test Methods and Remarks	Lead-free Solder paste, Reflow; Peak temperature 245°C				
12. Solder heat resi	stance				
Specified Value	After testing, meet the specified characteristics at a room temperature. A change of the remarkable appearance do not have it.				
Test Methods and Remarks	Please contact to solder manufacturer for the details. Temperature (°C) 300 250 Pre-Heating 150 − 180°C 100 100 100 100 100 100 100				

※ According to JIS(IEC) standard.

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FBAR/SAW DEVICES for MOBILE COMMUNICATIONS

1. Storage conditions

◆Storage

♦Storage 1. To maintain the solderability of terminal electrodes and to keep the packaging material in good condition, care must be taken to control temperature and humidity in the storage area. Humidity should especially be kept as low as possible. Recommended conditions Ambient temperature : $-5 \sim +40$ °C Precautions Humidity: 40~85%RH

The ambient temperature must be kept below 30°C.

Even under ideal storage conditions, the solderbility of electrodes decreases gradually, so filters should be mounted within 1 year from the time of delivery.

• The packaging material should be kept where no chlorine or sulfur exists in the air.

Technical considerations

1. If the parts are stocked in a high temperature and humidity environment, problems such as reduced solderability caused by oxidation of terminal electrodes and deterioration of taping/ packaging materials may take place. For this reason, components should be used within 1 year from the time of delivery. If exceeding the above period, please check the solderability before using the filter.

■ Please contact our sales offices for further details of specifications.

All of the standard values listed here are subject to change without notice.

Therefore, please check the specifications carefully before use.

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