Notice for TAIYO YUDEN products

Please read this notice before using the TAIYO YUDEN products.

⚠ REMINDERS

- Product information in this catalog is as of October 2014. 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 usage of the Products.

  Please note that TAIYO YUDEN CO., LTD. shall not be responsible for any defects in products or equipment incorporating such products, which are caused under the conditions other than those specified in this catalog or individual specification.

- Please contact TAIYO YUDEN CO., LTD. for further details of product specifications as the individual specification is available.

- Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.

- All electronic components or functional modules listed in this catalog are developed, designed and intended for use in general electronics equipment.(for AV, office automation, household, office supply, information service, telecommunications, (such as mobile phone or PC) etc.). Before incorporating the components or devices into any equipment in the field such as transportation,(automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network (telephone exchange, base station) etc. which may have direct influence to harm or injure a human body, please contact TAIYO YUDEN CO., LTD. for more detail in advance.
  Do not incorporate the products into any equipment in fields such as aerospace, aviation, nuclear control, submarine system, military, etc. where higher safety and reliability are especially required.

  In addition, even electronic components or functional modules that are used for the general electronic equipment, if the equipment or the electric circuit require high safety or reliability function or performances, a sufficient reliability evaluation check for safety shall be performed before commercial shipment and moreover, due consideration to install a protective circuit is strongly recommended at customer's design stage.

- The contents of this catalog are applicable to the products which are purchased from our sales offices or distributors (so called "TAIYO YUDEN's official sales channel").
  It is only applicable to the products purchased from any of TAIYO YUDEN's official sales channel.

- Please note that TAIYO YUDEN CO., LTD. shall have no responsibility for any controversies or disputes that may occur in connection with a third party's intellectual property rights and other related rights arising from your usage of products in this catalog. TAIYO YUDEN CO., LTD. grants no license for such rights.

- Caution for export
  Certain items in this catalog may require specific procedures for export according to "Foreign Exchange and Foreign Trade Control Law" of Japan, "U.S. Export Administration Regulations", and other applicable regulations. Should you have any question or inquiry on this matter, please contact our sales staff.

SAW/FBAR DEVICES for MOBILE COMMUNICATIONS

REFLOW

ORDERING CODE

(A) Previous Rule (applied to products registered on March 31, 2010 or before.)

F A R — D 6 N F — 1 G 9 6 0 0 — P 1 B Z — Z

1 Family

2 Common sign: — Fixation

3 Series

	Product	Frequency Range
D5	Duplexer	700-1000MHz
D6	Duplexer	1000-5000MHz
J5	Dual Duplexers	700-1000MHz
F5	Device	700-1000MHz
F6	Device	1000-5000MHz
G5	Dual Devices	700-1000MHz
G6	Dual Devices	1000-5000MHz

4 Package type

5 Product type

6 Common sign: — Fixation

7 Frequency

8 Common sign: — Fixation

9 Design

10 Serial Number

11 Custom, Status

12 Packing

(B) New Rule (applied to products registered on April 1, 2010 or later.)

D 6 N F 1 G 9 6 0 P 1 B Z — Z

1 Series

	Product	Frequency Range
D5	Duplexer	700-1000MHz
D6	Duplexer	1000-5000MHz
J5	Dual Duplexers	700-1000MHz
F5	Device	700-1000MHz
F6	Device	1000-5000MHz
G5	Dual Devices	700-1000MHz
G6	Dual Devices	1000-5000MHz

2 Package type

3 Product type

4 Frequency

5 Design

6 Serial Number

7 Custom

8 Packing

＊For further details, please contact to TAIYO YUDEN Co.,Ltd.

EXTERNAL DIMENSIONS/STANDARD QUANTITY

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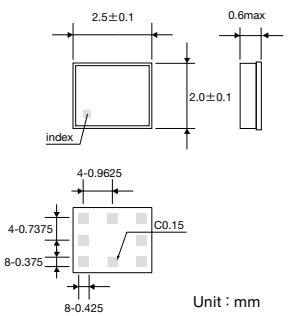

Unit : mm

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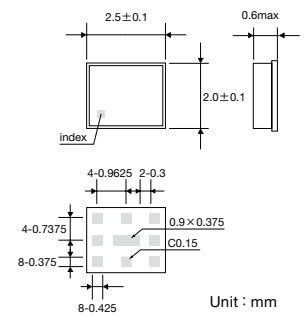

Unit : mm

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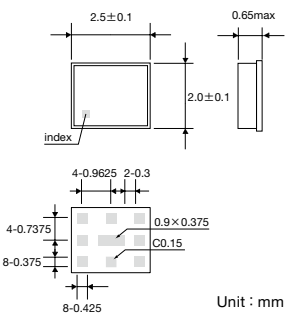

Unit : mm

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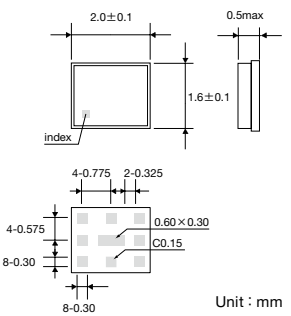

Unit : mm

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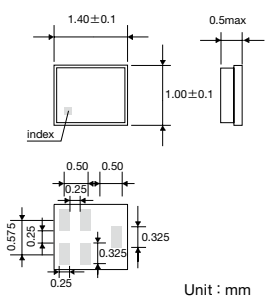

Unit : mm

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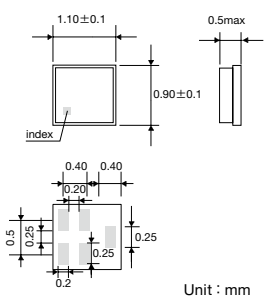

Unit : mm

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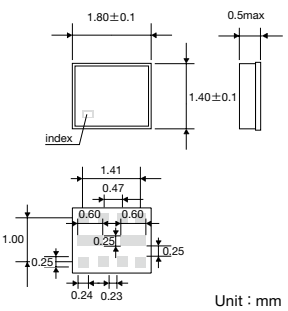
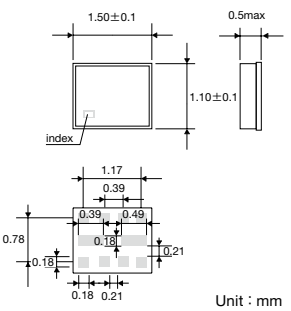


Unit : mm

1.5×1.1×0.5



Unit : mm

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PART NUMBERS

Duplexers

System	Part number	Package Size (mm)	Insertion Loss (dB)	Isolation (dB)	Remarks
W-CDMA Band 1	D6PE2G140P3AW	2.0×1.6×0.5	1.5/1.6	59/47	9 Pin, B Type Rx : Bal.100ohm
	D6RB2G140E1AJ	1.8×1.4×0.5	1.7/1.8	57/48	8 Pin, B Type Rx : Bal.100ohm
PCS/W-CDMA Band 2	FAR-D6NH-1G9600-M1Z9	2.5×2.0×0.65	2.2/3.1	55/50	9 Pin, B Type
	FAR-D6NH-1G9600-M1Z6	2.5×2.0×0.65	2.3/2.7	55/53	9 Pin, B Type Low Rx IL
	FAR-D6NF-1G9600-P1BT	2.5×2.0×0.65	2.5/2.8	54/55	9 Pin, B Type 100ohm, Low Rx IL
	D6NF1G960P1BR	2.5×2.0×0.65	2.5/3.4	58/53	9 Pin, B Type Rx : Bal.100ohm High GPS Att. & Rx Isol.
	D6HH1G960BH95	2.5×2.0×0.65	2.3/2.5	56/53	9 Pin, B Type 100ohm
	D6PE1G960P3BY	2.0×1.6×0.57	2.0/3.1	57/53	9 Pin, B Type Rx : Bal.100ohm
W-CDMA Band 4	D6PE2G132P3DWB	2.0×1.6×0.5	1.8/1.8	55/50	9 Pin, B Type Rx : Bal.100ohm
CDMA/W-CDMA Band 5	FAR-D5NG-881M50-M11Z	2.5×2.0×0.6	1.45/1.8	66/52	9 Pin, B Type
	FAR-D5PF-881M50-M3E9	2.0×1.6×0.5	1.5/1.8	58/51	9 Pin, B Type
	FAR-D5NE-881M50-P1A9	2.5×2.0×0.6	1.6/1.8	57/51	9 Pin, B Type Rx : Bal.100ohm
	FAR-D5NE-881M50-P1A6Q	2.5×2.0×0.6	1.6/1.7	60/53	9 Pin, B Type 100ohm
	FAR-D5PE-881M50-P3EZ	2.0×1.6×0.5	1.4/1.7	59/52	9 Pin, B Type Rx : Bal.100ohm
	FAR-D5PE-881M50-P3EY	2.0×1.6×0.5	1.4/1.7	59/52	9 Pin, A Type Rx : Bal.100ohm
	D5NL881M5P1HY	3.0×2.5×0.7	1.6/2.6	60/51	SV-LTE
W-CDMA Band 8	FAR-D5NH-942M50-M1Y9	2.5×2.0×0.65	1.8/2.3	58/50	9 Pin, B Type
	FAR-D5NF-942M50-P1GWQ	2.5×2.0×0.65	1.9/2.3	59/54	9 Pin, B Type 100ohm, GPS High Att.
	D5PF942M5M3G9	2.0×1.6×0.5	1.9/2.2	60/52	9 Pin, B Type
	D5PE942M5P3GT	2.0×1.6×0.5	1.7/2.2	58/54	9 Pin, B Type Rx : Bal.100ohm
LTE Band 13	D5PE782M0M3P9	2.0×1.6×0.5	1.6/2.0	53/64	9 Pin, B Type
	D5NL782M0P1JZ	3.0×2.5×0.7	1.9/2.2	66/52	SV-LTE
LTE Band 17	FAR-D5NE-740M00-P1C9	2.5×2.0×0.6	1.7/2.0	61/58	9 Pin, B Type Rx : Bal.100ohm
	D5PE740M0P3NZ	2.0×1.6×0.5	1.9/2.0	63/60	9 Pin, B Type Rx : Bal.100ohm
LTE Band 20	D5NE847M0P1K9	2.5×2.0×0.6	2.1/2.3	52/51	9 Pin, B Type Rx : Bal.100ohm
LTE Band 21	D6PE1G503P3KW	2.0×1.6×0.5	1.6/2.0	55/56	9 Pin, B Type Rx : Bal.100ohm
LTE Band 26	D5PE876M5P3UZ	2.0×1.6×0.5	2.2/2.6	60/49	9 Pin, B Type Rx : Bal.100ohm
LTE Band 28	D5PF773M0M3Y6	2.0×1.6×0.5	1.8/2.3	60/53	Block A 9Pin, B Type
	D5PF788M0M3Y9	2.0x1.6x0.5	1.8/2.4	60/54	Block B 9Pin, B Type
CDMA BC0+BC10	D5NF878M0P1ET	2.5×2.0×0.65	1.9/2.5	58/50	9 Pin, B Type Rx : Bal.100ohm
	D5PE878M0P3UT	2.0×1.6×0.5	1.9/2.2	59/51	9 Pin, B Type Rx : Bal.100ohm

CDMA/GSM850/Band 5

System	Part number	Package Size (mm)	Insertion Loss (dB)	Attenuation (dB)	Remarks
CDMA Tx	FAR-F5KB-836M50-B4ER	1.4×1.0×0.5	1.7	44	100ohm input
	FAR-F5KB-836M50-B4EG	1.4×1.0×0.5	1.6	42	200ohm input
	F5QA836M5M2AR	1.1×0.9×0.5	1.9	45	High Att.
CDMA/GSM850 Tx	FAR-F5KA-836M50-D4DF	1.4×1.0×0.5	1.9	44	High Att.
CDMA/W-CDMA Band 5 Rx	FAR-F5KB-881M50-B4ED	1.4×1.0×0.5	1.5	61	100ohm output
	FAR-F5KY-881M50-B4UZ	1.4×1.0×0.5	1.5	61	100ohm, High Att.
	FAR-F5KB-881M50-B4EJ	1.4×1.0×0.5	1.4	64	200ohm output
	FAR-F5QB-881M50-P2BG	1.1×0.9×0.5	1.5	60	100ohm output
	F5QG881M5P2KG	1.1×0.9×0.5	1.5	56	100ohm, High Att., Low Loss
GSM850/CDMA Rx	FAR-F5KA-881M50-D4DB	1.4×1.0×0.5	1.7	56	High Att.
	FAR-F5QA-881M50-M2AF	1.1×0.9×0.5	1.6	46	-
GSM850 Rx	FAR-F5KB-881M50-B4EA	1.4×1.0×0.5	1.7	53	150ohm output
	FAR-F5QB-881M50-P2BA	1.1×0.9×0.5	1.3	63	150ohm output

CDMA2000 BC0+BC10

System	Part number	Package Size (mm)	Insertion Loss (dB)	Attenuation (dB)	Remarks
CDMA2000 BC0+10 Tx	F5KA833M0D4DU	1.4×1.0×0.5	2.3	43	High Att.
	F5KA833M0D4MG	1.4×1.0×0.5	1.4	20	Low IL
CDMA2000 BC0+10 Rx	F5KY878M0B4ND	1.4×1.0×0.5	2.1	53	100ohm output

GSM/EGSM/Band 8

System	Part number	Package Size (mm)	Insertion Loss (dB)	Attenuation (dB)	Remarks
EGSM Tx	FAR-F5KA-897M50-D4DC	1.4×1.0×0.5	2.2	16	High Att.
	FAR-F5KA-897M50-D4VW	1.4×1.0×0.5	2.6	38	High Att.
	F5QA897M5M2AC	1.1×0.9×0.5	2.3	18	—
EGSM Rx	FAR-F5KA-942M50-D4DD	1.4×1.0×0.5	2.0	34	High Att.
	FAR-F5KB-942M50-B4EB	1.4×1.0×0.5	1.6	26	150ohm output
	FAR-F5KB-942M50-B4ES	1.4×1.0×0.5	2.4	29	100ohm output
	FAR-F5QB-942M50-P2BB	1.1×0.9×0.5	1.6	28	150ohm output
W-CDMA/LTE Band 8	F5KA942M5D4MYB	1.4×1.0×0.5	1.9	53	High Att.
	FAR-F5KY-942M50-B4UW	1.4×1.0×0.5	2.0	57	100ohm, High Att.
	F5QG942M5P2KB	1.1×0.9×0.5	2.2	56	100ohm, High Att.

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PART NUMBERS

●DCS/Band 3

System	Part number	Package Size (mm)	Insertion Loss (dB)	Attenuation (dB)	Remarks
DCS Tx	FAR-F6KA-1G7475-D4CY	1.4×1.0×0.5	2.5	30	
	F6QA1G747M2QS	1.1×0.9×0.5	2.1	22	
DCS Rx	FAR-F6KA-1G8425-D4CK	1.4×1.0×0.5	2.1	20	
	FAR-F6KB-1G8425-B4GA	1.4×1.0×0.5	1.5	14	150ohm output
	F6QB1G842P2BM	1.1×0.9×0.5	1.8	15	100ohm
	F6QB1G842P2BF	1.1×0.9×0.5	1.6	17	150ohm
W-CDMA/LTE Band 3	F6KY1G842B4UM	1.4×1.0×0.5	3.0	50	100ohm, High Att.

●PCS/GSM1900/Band 2

System	Part number	Package Size (mm)	Insertion Loss (dB)	Attenuation (dB)	Remarks
US-PCS Tx	FAR-F6KA-1G8800-L4AF	1.4×1.0×0.5	2.4	35	High Att.
	FAR-F6KB-1G8800-B4GS	1.4×1.0×0.5	2.3	28	100ohm input
	F6QA1G880M2AQ	1.1×0.9×0.5	1.7	20	
US-PCS Rx	FAR-F6KA-1G9600-D4MT	1.4×1.0×0.5	3.4	43	High Att.
	FAR-F6KB-1G9600-B4GP	1.4×1.0×0.5	2.1	23	100ohm output
	FAR-F6KY-1G9600-B4UU	1.4×1.0×0.5	2.9	49	100ohm, High Att.
	F6KY1G960B4NF	1.4×1.0×0.5	2.8	50	100ohm output
	F6QG1G960P2KT	1.1×0.9×0.5	2.8	44	100ohm output
GSM1900/US-PCS Rx	FAR-F6KA-1G9600-D4CR	1.4×1.0×0.5	2.0	18	
GSM1900 Rx	FAR-F6KB-1G9600-B4GB	1.4×1.0×0.5	1.6	18	150ohm output
	F6QB1G960P2BK	1.1×0.9×0.5	1.5	15	150ohm output

●GSM Dual

System	Part number	Package Size (mm)	Insertion Loss (dB)	Attenuation (dB)	Remarks
GSM850+EGSM Rx	FAR-G5QC-942M50-N2FB	1.5×1.1×0.5	1.5/1.8	50/29	GSM850 150ohm output EGSM 150ohm output
GSM850+EGSM Rx (Common Input)	FAR-G5KT-942M50-Y4RW	1.8×1.4×0.5	1.9/2.2	50/25	GSM850 150ohm output EGSM 150ohm output
GSM850+EGSM Rx (Common Output)	FAR-G5KW-942M50-Y4YD	1.8×1.4×0.5	2.5/1.8	32/38	EGSM 150ohm output GSM850 150ohm output
EGSM+GSM850 Rx	FAR-G5KC-942M50-Y4YW	1.8×1.4×0.5	1.8/1.4	31/54	EGSM 150ohm output GSM850 150ohm output
	FAR-G5QC-942M50-N2CD	1.5×1.1×0.5	1.7/1.4	29/51	EGSM 150ohm output GSM850 150ohm output
EGSM+GSM850 Rx (Common Input)	FAR-G5KT-942M50-Y4RZ	1.8×1.4×0.5	2.2/1.9	25/52	EGSM 150ohm output GSM850 150ohm output
	FAR-G5QD-942M50-N2DB	1.5×1.1×0.5	2.5/2.0	25/55	EGSM 150ohm output GSM850 150ohm output
DCS+GSM1900 Rx	FAR-G6QC-1G9600-N2FA	1.5×1.1×0.5	1.9/1.7	17/13	DCS 150ohm output GSM1900 150ohm output
	G6QJ1G960M2MB	1.5×1.1×0.5	1.9/1.9	19/19	Rx Dual Unbal
DCS+GSM1900 Rx (Common Input)	FAR-G6KT-1G9600-Y4RU	1.8×1.4×0.5	1.8/2.0	18/13	DCS 150ohm output GSM1900 150ohm output
DCS+GSM1900 Rx (Common Input)	G6QD1G960N2DY	1.5×1.1×0.5	1.8/1.9	18/14	1 IN 4 OUT 150ohm output
GSM1900+DCS Rx	FAR-G6KC-1G9600-Y4YY	1.8×1.4×0.5	1.9/1.8	14/16	GSM1900 150ohm output DCS 150ohm output
	G6QC1G960N2CH	1.5×1.1×0.5	1.6/1.6	13/15	GSM1900 150ohm output DCS 150ohm output
GSM1900+DCS Rx (Common Input)	FAR-G6KT-1G9600-Y4RY	1.8×1.4×0.5	1.9/1.8	13/18	GSM1900 150ohm output DCS 150ohm output
GSM1900+DCS Rx (Common Output)	FAR-G6KW-1G9600-Y4YC	1.8×1.4×0.5	2.2/3.1	13/15	170ohm output for IMC
	G6QE1G960N2EC	1.5×1.1×0.5	2.5/2.5	18/13	GSM1900 150ohm output DCS 150ohm output
	G6QE1G960N2EE	1.5×1.1×0.5	2.2/2.2	31/14	GSM1900/DCS 150ohm output Low Loss
GSM1900+850 Rx	G6QF1G960N2GA	1.5×1.1×0.5	1.6/1.4	14/54	GSM1900 150ohm output GSM850 150ohm output

●GPS

System	Part number	Package Size (mm)	Insertion Loss (dB)	Attenuation (dB)	Remarks
GPS	FAR-F6KA-1G5754-L4AJ	1.4×1.0×0.5	0.9	—	Low loss, High Att.
	F6QA1G575H2JF	1.1×0.9×0.5	0.96	—	Low loss, High Att.
	FAR-F6KB-1G5754-B4GE	1.4×1.0×0.5	1.1	—	100ohm, Low loss
	FAR-F6KB-1G5754-B4GU	1.4×1.0×0.5	1.2	—	100ohm, High Att.
GPS/GNSS	FAR-F6KA-1G5859-D4MS	1.4×1.0×0.5	1.0/1.2	—	—
	F6QA1G585M2AT	1.1×0.9×0.5	1.1/1.4	—	—
	FAR-F6KB-1G5859-B4HR	1.4×1.0×0.5	1.1/1.4	—	100ohm output
	F6QB1G585P2BQ	1.1×0.9×0.5	1.5/1.7	—	100ohm output
GPS+GLONASS+Galileo +Compass	F6KA1G581D4JR	1.4×1.0×0.5	1.6	—	
	F6QA1G581M2QZ	1.1×0.9×0.5	1.1/1.4	—	

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PART NUMBERS

W-CDMA

System	Part number	Package Size (mm)	Insertion Loss (dB)	Attenuation (dB)	Remarks
W-CDMA Band 1 Tx	FAR-F6KA-1G9500-D4DG	1.4×1.0×0.5	1.6	38	Low loss, High Att.
	FAR-F6KB-1G9500-B4GJ	1.4×1.0×0.5	2.1	34	100ohm output
	F6QA1G950M2AA	1.1×0.9×0.5	1.8	38	Low loss, High Att.
W-CDMA Band 1 Rx	FAR-F6KA-2G1400-D4CG	1.4×1.0×0.5	1.9	39	
	FAR-F6KB-2G1400-B4GC	1.4×1.0×0.5	1.7	39	100ohm output
	FAR-F6KA-2G1400-D4DW	1.4×1.0×0.5	1.9	48	High Att.
	FAR-F6KY-2G1400-B4UY	1.4×1.0×0.5	1.8	64	100ohm, High Att.
	F6QG2G140P2KA	1.1×0.9×0.5	1.7	55	100ohm, High Att.
W-CDMA Band 1+2 Rx	G6QL2G140M2PA	1.5×1.1×0.5	1.9/3.0	48/41	
W-CDMA Band 2+1 Rx	G6QH2G140N2LP	1.5×1.1×0.5	3.2/2.3	53/54	2 (1.9G)100ohm out 1 (2G)100ohm out
W-CDMA Band 4 Tx	FAR-F6KA-1G7400-D4DE	1.4×1.0×0.5	1.5	44	
W-CDMA Band 5+8 Rx	G5QH942M5N2LN	1.5×1.1×0.5	1.6/20	56/50	100ohm output
W-CDMA Band 8+5 Rx (Common Output)	G5QT942M5N2VA	1.5×1.1×0.5	2.3/2.0	48/48	100ohm output
W-CDMA Band 7 Tx	F6KA2G535L4AM	1.4×1.0×0.5	1.6	30	
W-CDMA/LTE Band 7 Rx	FAR-F6KY-2G6550-B4UN	1.4×1.0×0.5	2.8	54	100ohm. High Att.
	F6QG2G655P2KE	1.1×0.9×0.5	2.5	52	100ohm. High Att.
W-CDMA Band 9 Tx	FAR-F6KA-1G7675-D4CT	1.4×1.0×0.5	1.8	31	Unbal.
W-CDMA Band 9 Rx	FAR-F6KB-1G8625-B4GT	1.4×1.0×0.5	2.1	40	100ohm output
LTE Band 12 Tx	F5KA707M5D4JW	1.4×1.0×0.5	1.6	23	Unbal.
LTE Band 12 Rx	F5KY737M0B4NN	1.4×1.0×0.5	1.4	57	100ohm output
LTE Band 13 Tx	FAR-F5KA-782M00-D4VP	1.4×1.0×0.5	1.5	55	
	F5QA782M0M2AZ	1.1×0.9×0.5	1.5	56	Unbal.
LTE Band 13 Rx	FAR-F5KY-751M00-B4UQ	1.4×1.0×0.5	1.6	50	100ohm output
	F5QA751M0M2QM	1.1×0.9×0.5	1.9	50	Unbal.
LTE Band 17 Tx	FAR-F5KA-710M00-D4VQ	1.4×1.0×0.5	1.2	32	
	F5QA710M0M2AY	1.1×0.9×0.5	1.3	33	Unbal.
LTE Band 17 Rx	FAR-F5KY-740M00-B4UR	1.4×1.0×0.5	1.4	60	100ohm output
	F5QG740M0P2KH	1.1×0.9×0.5	1.4	65	100ohm output
LTE Band 18 Tx	F5KA822M5D4VR	1.1×0.9×0.5	1.6	40	Unbal.
LTE Band 18+5 (BC0) Tx	F5KA832M0D4JS	1.4×1.0×0.5	1.5	19	Unbal.
LTE Band 20 Tx	F5KA847M0D4ML	1.4×1.0×0.5	1.7	52	
LTE Band 20 Rx	F5KY806M0B4NE	1.4×1.0×0.5	2.5	45	100ohm output
	F5QA806M0M2QE	1.1×0.9×0.5	2.7	41	Unbal.
LTE Band 21 Rx	F6KY1G503B4NS	1.4×1.0×0.5	1.4	47	100ohm output Low loss
	F6QA1G503M2QF	1.1×0.9×0.5	2.0	52	Unbal.
LTE Band 25 Tx	F6QA1G882M2AS	1.1×0.9×0.5	1.8	23	Unbal.
LTE Band 26 Rx	F5QG876M5P2KQ	1.1×0.9×0.5	2.2	59	100ohm output
LTE Band 28 Rx	F5QA773M0M2QC	1.1×0.9×0.5	2.1	52	Block A
	F5QA788M0M2QB	1.1×0.9×0.5	2.0	52	Block B
LTE Band 29 Rx	F5BA722M5M6UW	1.1×0.9×0.5	1.6	38	Unbal.
TD LTE Bnad 38 Rx	F6KB2G595B4HS	1.4×1.0×0.5	2.6	—	150ohm output
TD LTE Band 38+40 (Common output)	G6QE2G595N2EJ	1.5×1.1×0.5	2.9/2.8	—	Balanced 100ohm
TD LTE Band 40 Rx	F6KB2G350B4HT	1.4×1.0×0.5	2.7	—	150ohm output
	F6KB2G350B4HTB	1.4×1.0×0.5	2.5	—	Balanced 100ohm

Other

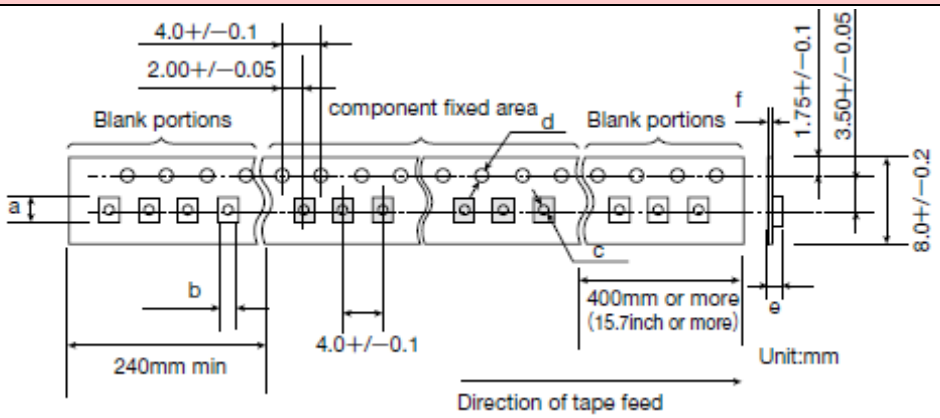
System	Part number	Package Size (mm)	Insertion Loss (dB)	Attenuation (dB)	Remarks
ISM900 (B.W.26MHz)	FAR-F5QA-915M00-M2AK	1.1×0.9×0.5	1.8	—	
TD-SCDMA/TD-LTE Band 34	FAR-F6KA-2G0175-D4DR	1.4×1.0×0.5	1.8	—	High Att
TD-SCDMA/TD-LTE Band 39	FAR-F6KA-1G9000-D4DS	1.4×1.0×0.5	1.6	—	
TD-SCDMA Band 34+39	G6QJ2G017M2MD	1.5×1.1×0.5	1.3/1.4	—	2 IN/2 OUT
	G6QJ2G017M2RD	1.5×1.1×0.5	1.6/2.0	—	1 IN/2 OUT
TD-SCDMA Band 39+34 (Common input)	G6QD2G017N2DU	1.5×1.1×0.5	1.7/2.0	—	Balanced 100ohm
TD-SCDMA Band 34+39 (Common input)	G6QD2G017N2DC	1.5×1.1×0.5	2.2/1.8	—	Balanced 200ohm
Wireless LAN	FAR-F6KA-2G4418-D4CU	1.4×1.0×0.5	2.6	—	+10dBm
	FAR-F6KA-2G4418-A4VA	1.4×1.0×0.5	3.0	—	+23dBm
	FAR-F6KA-2G4500-A4VD	1.4×1.0×0.5	1.9	—	Low IL,+19dBm
	F6KA2G436A4VE	1.4×1.0×0.5	2.5	—	BW=72MHz,+24dBm
	F6KA2G466A4VJ	1.4×1.0×0.5	2.8	—	BW=68MHz,+24dBm

■PACKAGING

①Minimum Quantity

Type	Size(mm)	Code & Quantity(Pieces)							
Duplexer	3.0×2.5	Z	3000			U	10000		
	2.5×2.0	Z	3000			U	10000		
	2.0×1.6	Z	3000					Y	15000
Single Filter	2.0×1.6	Z	3000					Y	15000
	1.4×1.0	Z	3000					Y	15000
	1.1×0.9			J	5000			Y	15000
Dual Filter	2.0×1.6	Z	3000					Y	15000
	1.8×1.4	Z	3000					Y	15000
	1.5×1.1			J	5000			Y	15000

②Tape material



●Taping dimensions

Type	Size(mm)	a	b	c	d	e	f
Duplexer	3.0×2.5	3.4±0.1	2.85±0.1	1.05±0.05	1.55±0.05	1.0±0.1	0.25±0.05
	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
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
	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	2.0×1.6	2.4±0.1	2.0	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	0.5±0.05	1.55±0.05	0.8±0.1	0.30±0.05
	1.5×1.1	1.8±0.1	1.4	0.5±0.05	1.5+0.1/−0	0.7±0.1	0.25±0.05

Unit:mm

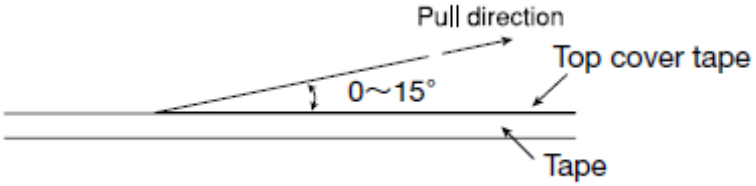
●Material of Tape(Conductive)

Tape : Polystyrene

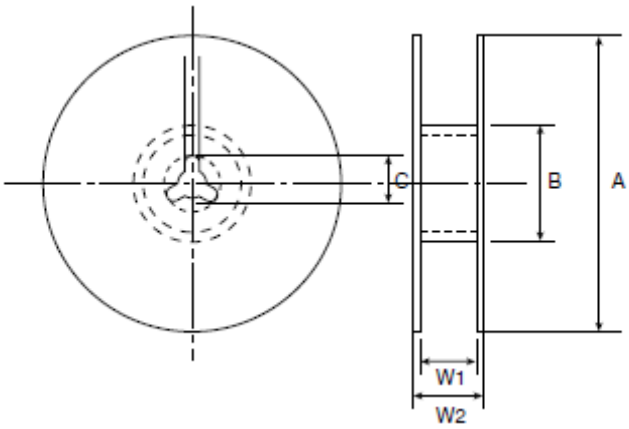
Top cover tape : Polyethylene terephthalate(PET)and Polyethylene

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.



④Reel size



Material of Reel

Material : Polystyrene＋Carbon

Characteristics : Conform to EIAJ-ET-7200A

Color : Black

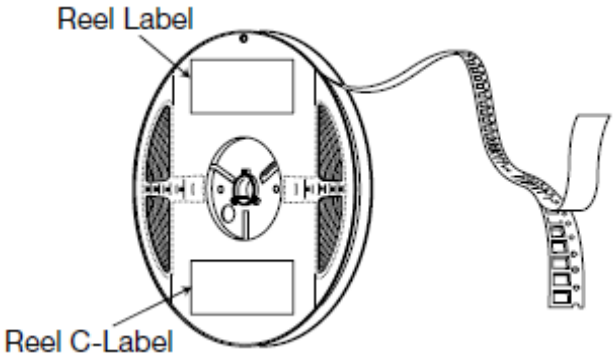
Surface resistance(reference value) :10^{9}Ω/sq Max.

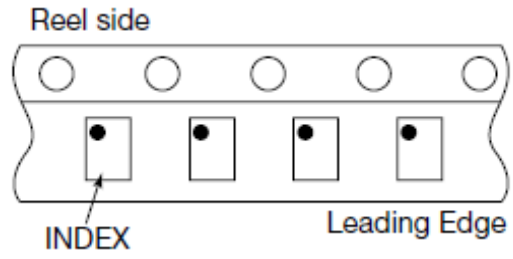
Code	Quantity	A	B	C	W1	W2
Z	3,000 pcs	φ180.0 +0.0/－1.5	φ66.0 ±0.5	φ13.0 ±0.2	9.0 +1.0/－0.0	11.4 ±1.0
J	5,000 pcs	φ180.0 +0.0/－1.5	φ66.0 ±0.5	φ13.0 ±0.2	9.0 +1.0/－0.0	11.4 ±1.0
U	10,000 pcs	φ330.0 ±2.0	φ100.0 ±1.0	φ13.0 ±0.2	9.4 ±1.0	13.4 ±1.0
Y	15,000 pcs	φ330.0 ±2.0	φ100.0 ±1.0	φ13.0 ±0.2	9.4 ±1.0	13.4 ±1.0

Unit:mm

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

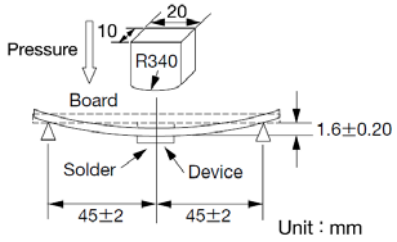
Surface





Filter

■RELIABILITY DATA

1. Terminal stregth	
Specified Value	No damage to be found.
Test Methods and Remarks	Bending Test. according to IEC60068-2-21(JISC60068-2-21) 

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. according to IEC68-2-27(JISC60068-2-27).

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

6. Temperature cycling	
Specified Value	After testing, meet the specified characteristics at a room temperature.
Test Methods and Remarks	Temp. range －40 to ＋100℃. 500cycle.

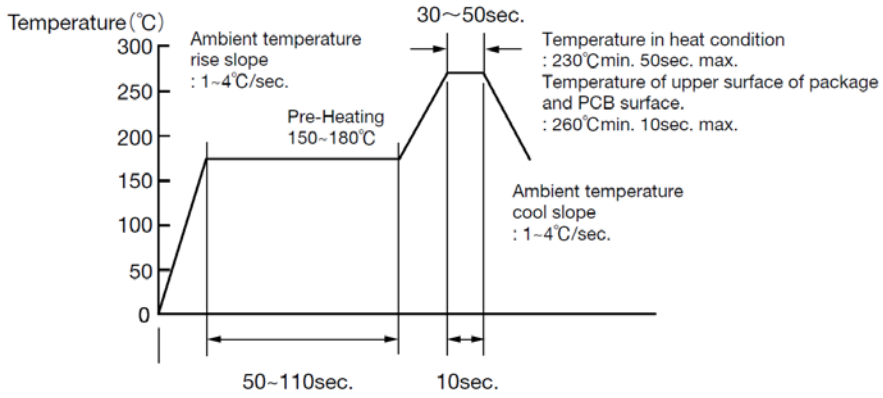
7. Static humidity	
Specified Value	After testing, meet the specified characteristics at a room temperature.
Test Methods and Remarks	＋85℃, 90% to 95%RH, apply DC5V, 1000hours.

8. High temperature storage life	
Specified Value	After testing, meet the specified characteristics at a room temperature.
Test Methods and Remarks	＋100℃, 1000hours.

9. Low temperature storage life	
Specified Value	After testing, meet the specified characteristics at a room temperature.
Test Methods and Remarks	－40℃, 1000hours.

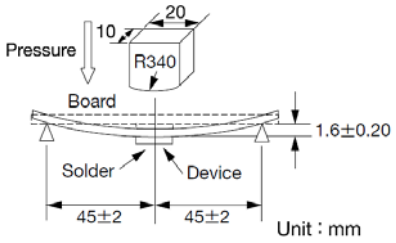
10. Solderbility 1	
Specified Value	More than 90% of area of terminals to be covered with the solder. A change of the remarkable appearance do not have it.
Test Methods and Remarks	Lead-free Solder paste, Reflow ; Peak temperature 245℃

11. Solderbility 2	
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	Sn-Pb Solder paste, Reflow ; Peak temperature 235℃

12. Solder heat resistance	
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	◆Recommended temperature profile of reflow soldering Figure shows recommended temperature profile of reflow soldering in the case of lead-free solder alloy Sn3.0Ag0.5Cu. Suitable condition for solder heating is differed depending on composition and manufacturing method. Please contact to solder manufacturer for the details. 

Duplexer

■RELIABILITY DATA

1. Terminal stregth	
Specified Value	No damage to be found.
Test Methods and Remarks	Bend width 4mm, hold for 5±1 sec. according to IEC60068-2-21(JISC60068-2-21) 

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. according to IEC68-2-27(JISC60068-2-27).

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

6. Temperature cycling	
Specified Value	After testing, meet the specified characteristics at a room temperature.
Test Methods and Remarks	Temp. range －40 to ＋100℃. 500cycle.

7. Static humidity	
Specified Value	After testing, meet the specified characteristics at a room temperature.
Test Methods and Remarks	＋85℃, 90% to 95%RH, apply DC5V, 1000hours.

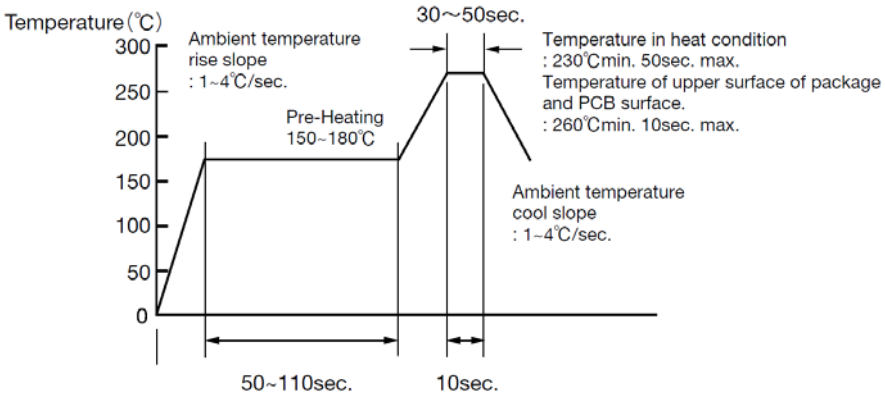
8. High temperature storage life	
Specified Value	After testing, meet the specified characteristics at a room temperature.
Test Methods and Remarks	＋100℃, 1000hours.

9. Low temperature storage life	
Specified Value	After testing, meet the specified characteristics at a room temperature.
Test Methods and Remarks	－40℃, 1000hours.

10. High Temperature Bias	
Specified Value	After testing, meet the specified characteristics at a room temperature.
Test Methods and Remarks	＋50℃, ＋29dBm, 50000hours.

11. Solderbility 1	
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℃

12. Solderbility 2	
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	Sn-Pb Solder paste, Reflow；Peak temperature 235℃

13. Solder heat resistance	
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	◆Recommended temperature profile of reflow soldering Figure shows recommended temperature profile of reflow soldering in the case of lead-free solder alloy Sn3.0Ag0.5Cu. Suitable condition for solder heating is differed depending on composition and manufacturing method. Please contact to solder manufacturer for the details. 

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