



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band 41 (120MHz) Tx/Rx Filter	Date	Apr. 06, 2018
Part Number	F6FC2G595H4PD	Version 3.1cA	Final

Table 1-1. Electrical Specification

Item		Condition (MHz)	Specification			Unit	Remarks
			Min.	Typ.	Max.		
Insertion loss (*1)		2535 - 2655	-	1.7	2.6	dB(*1)	-30 to +25°C
			-	1.7	2.1	dB(*1)	+25 to +85°C
			-	1.7	2.0	dB(*1)	+25°C
		2575 - 2635	-	1.2	1.6	dB(*1)	CMCC
Ripple		2535 - 2655	-	0.7	1.8	dB	
VSWR	Input	2535 - 2655	-	1.5	2.0	-	
	Output	2535 - 2655	-	1.5	2.0	-	
Input power		2535 - 2655(*2)	+31.0 dBm, TDD 40% duty, +50°C,5000h			-	
			+31.0 dBm, TD-LTE 40% duty 5MHz 1RB,+50°C,5000h			-	
		2535 - 2635	+32.0 dBm, TDD 40% duty, +50°C,5000h			-	HPUE Support
			+32.0 dBm, TD-LTE 40% duty 5MHz 1RB,+50°C,5000h			-	HPUE Support



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Table 1-2. Electrical Specification

Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Absolute attenuation	10 - 960	50	56	-	dB	
	1225 - 1880	31	36	-	dB	
	1880 - 2400	26	31	-	dB	
	2400 - 2483	33	38	-	dB	
	2750 - 4900	28	33	-	dB	
	4900 - 6000	35	45	-	dB	
	6000 - 8000	20	32	-	dB	
Terminal Impedance	Input port	50//2.4nH			Ω	
	Output port	50//2.4nH			Ω	
Operating Temperature		-30 to +85			°C	
Maximum DC in all ports		-	-	5	VDC	Device only
DC impedance to ground		100			MΩ	Device only
Device size (L typ. xW typ. xH max.)		1.1 x 0.9 x 0.44			mm	

(*1) Specification of insertion loss excludes loss that comes from the test board.

(*2) Input Power = +32.0 dBm @2535-2655MHz, TD-LTE 40% duty 5MHz 1RB, +50°C, 5min



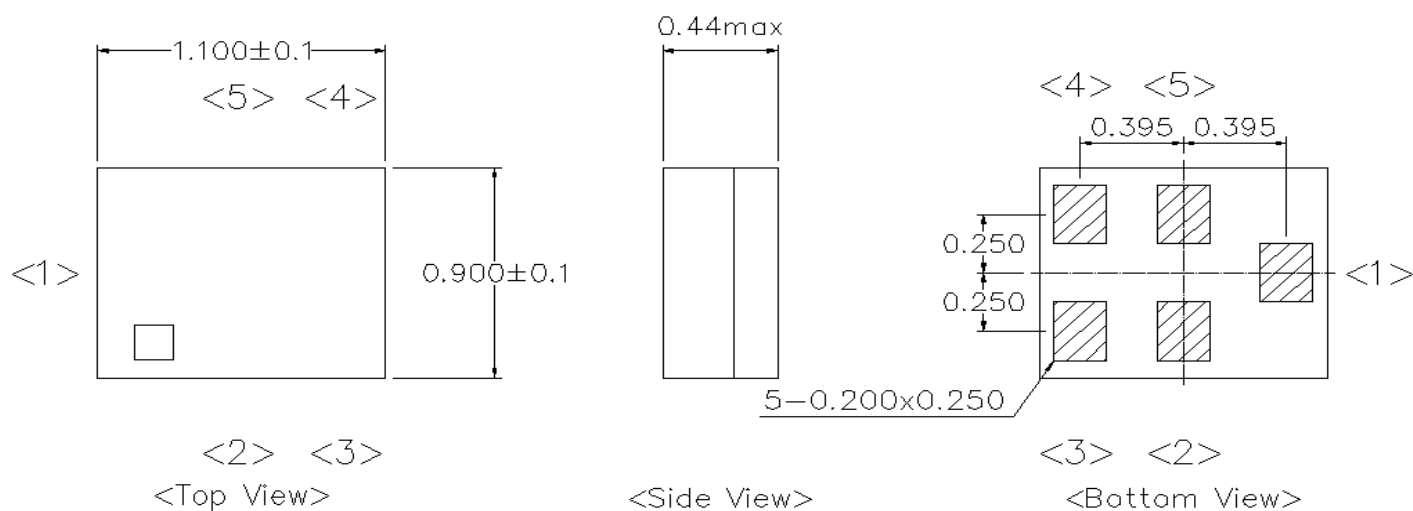
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Dimensions



Unit: mm

Figure 1. Dimensions

Pin Assignment

Table 2. Pin Assignment

Pin No.	Pin name	Description
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground



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Evaluation Circuit

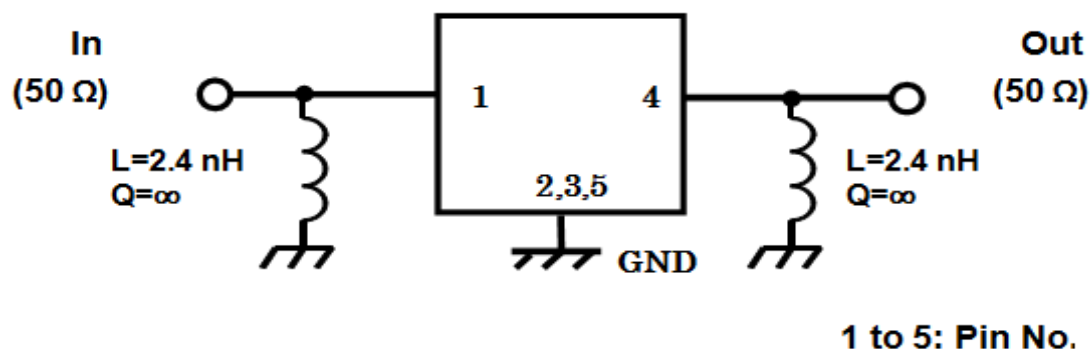


Figure 2. Evaluation Circuit

Recommended Foot Print Pattern

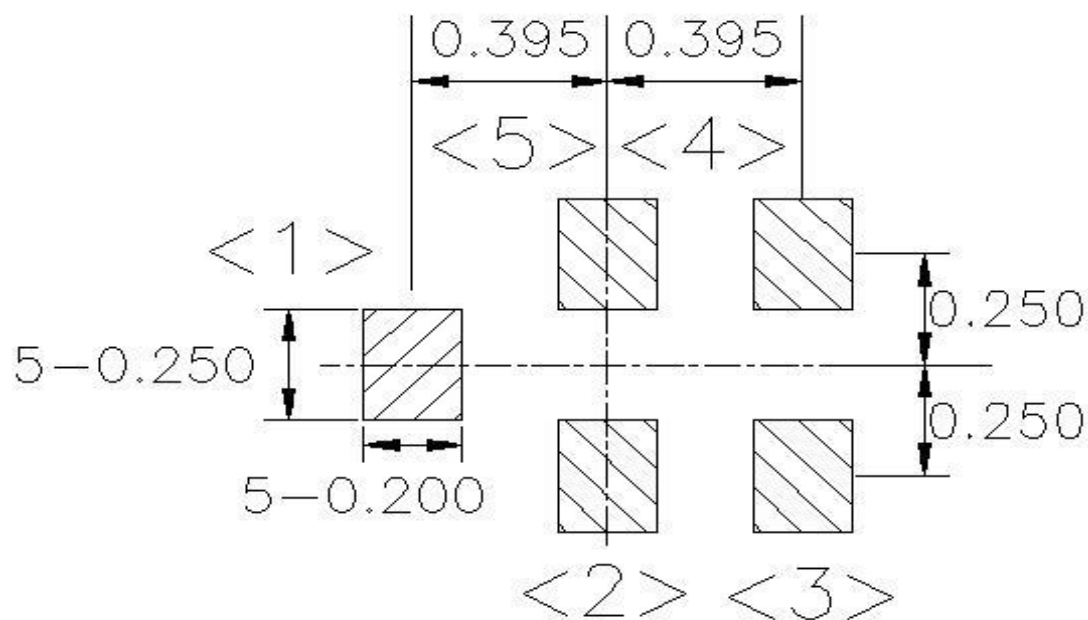


Figure 3. Recommended Foot Print Pattern



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Passband

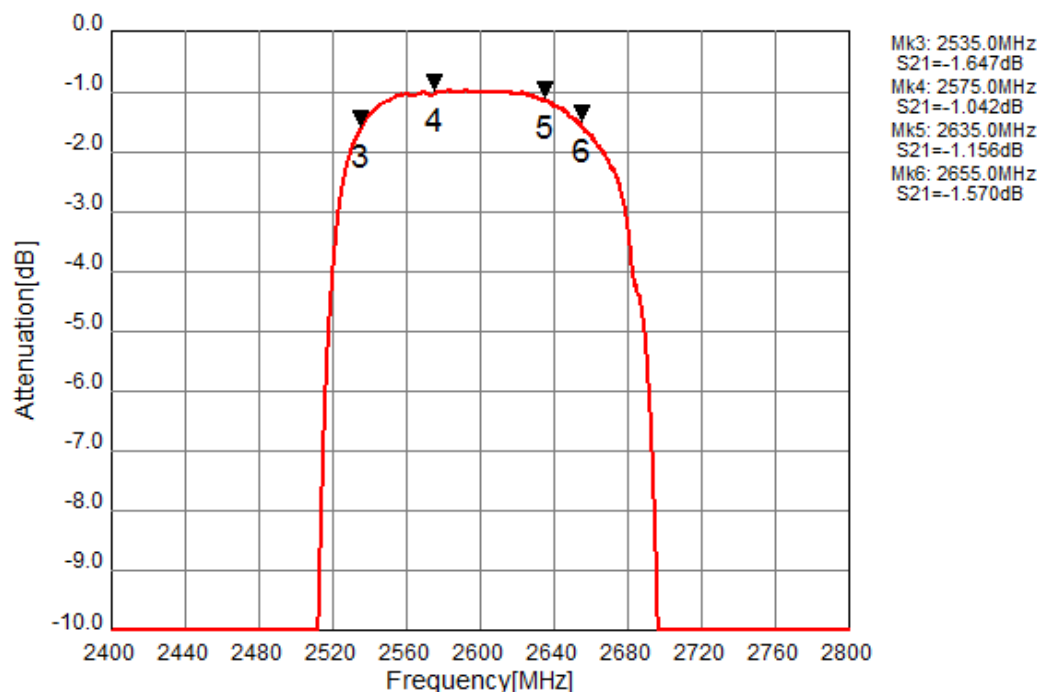
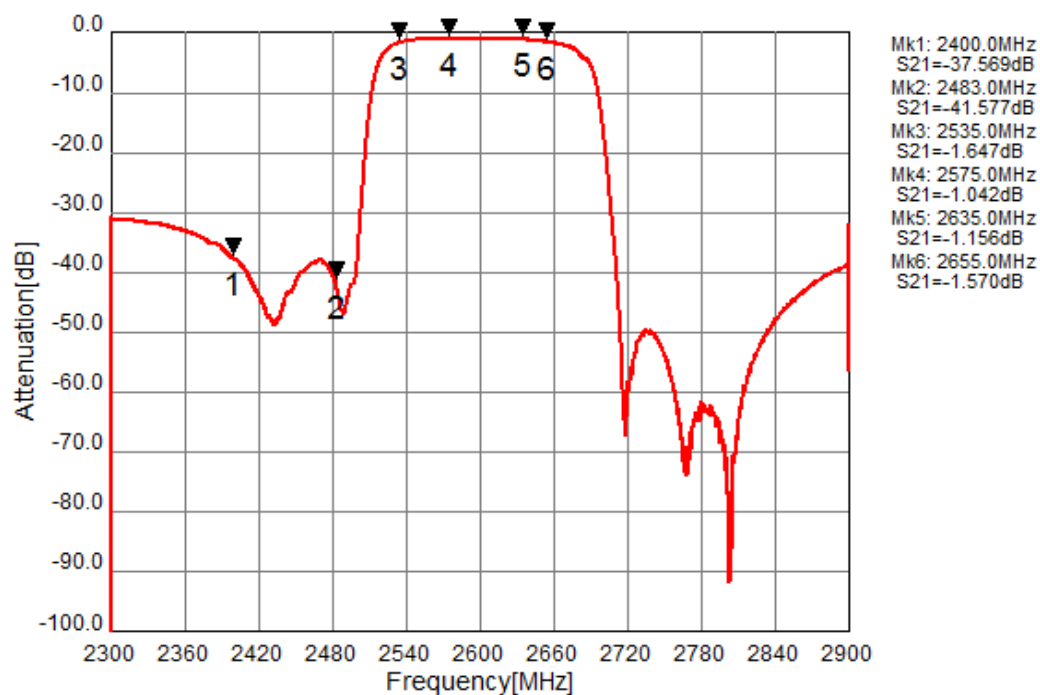


Figure 4-1. Electrical Characteristics

These data excludes loss that comes from the test board

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Input Port

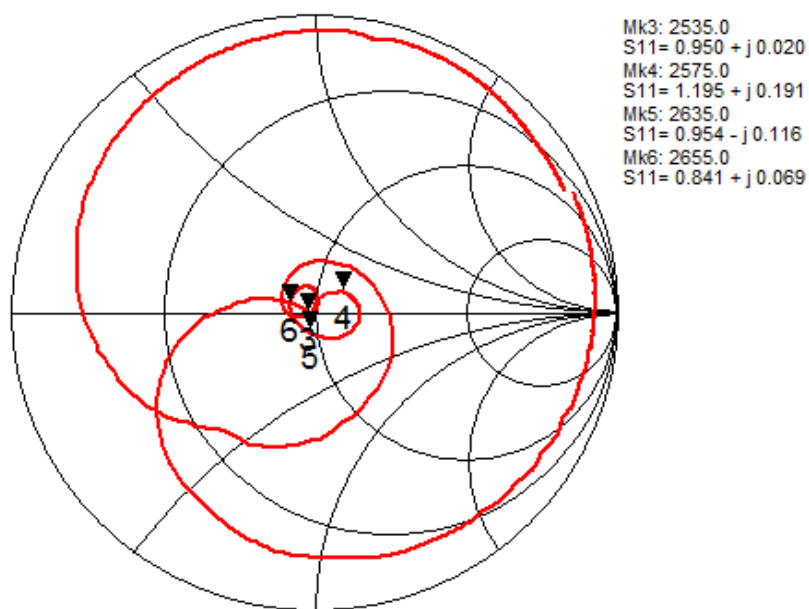
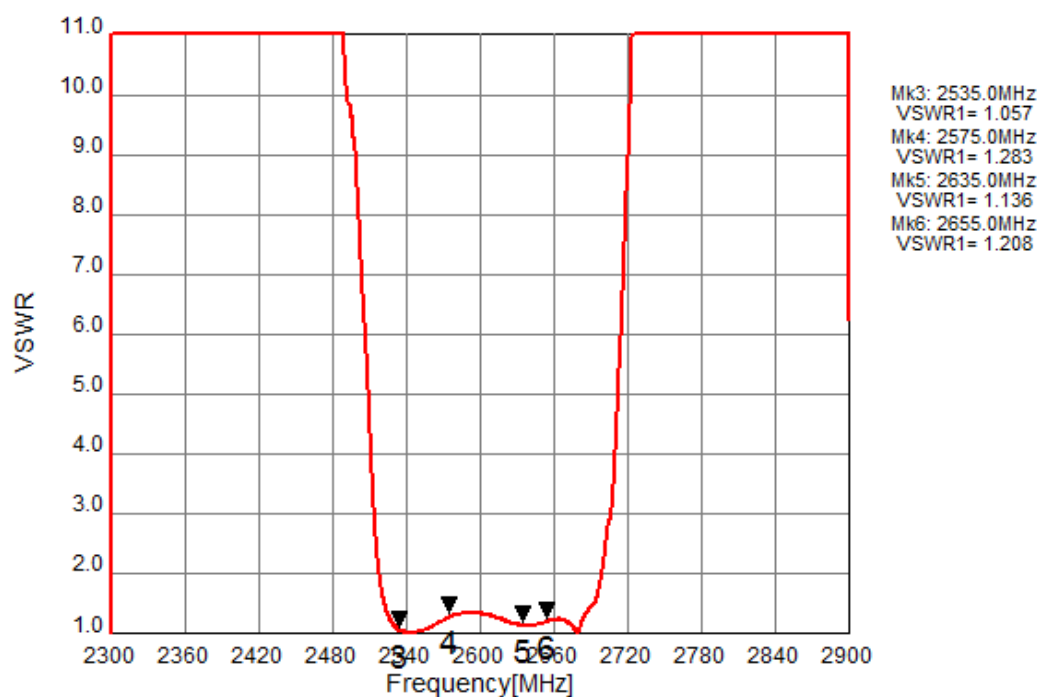


Figure 4-2. Electrical Characteristics



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Output Port

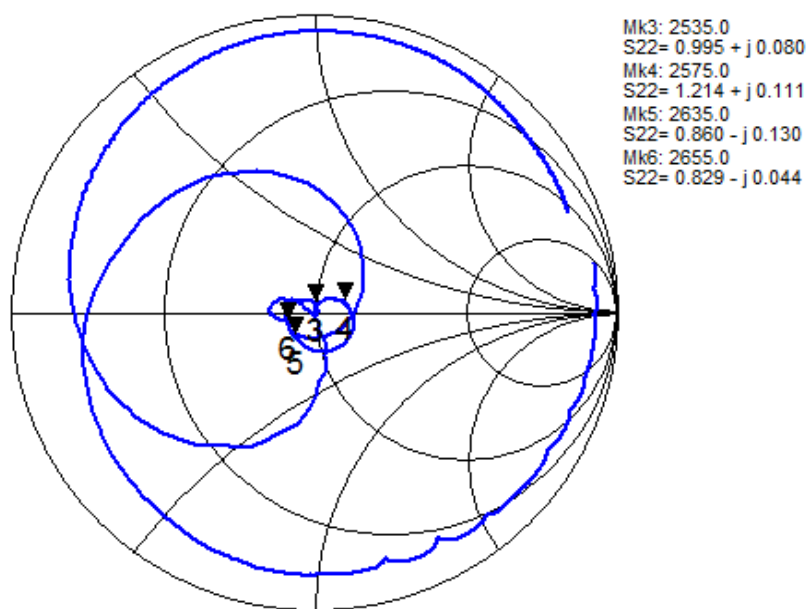
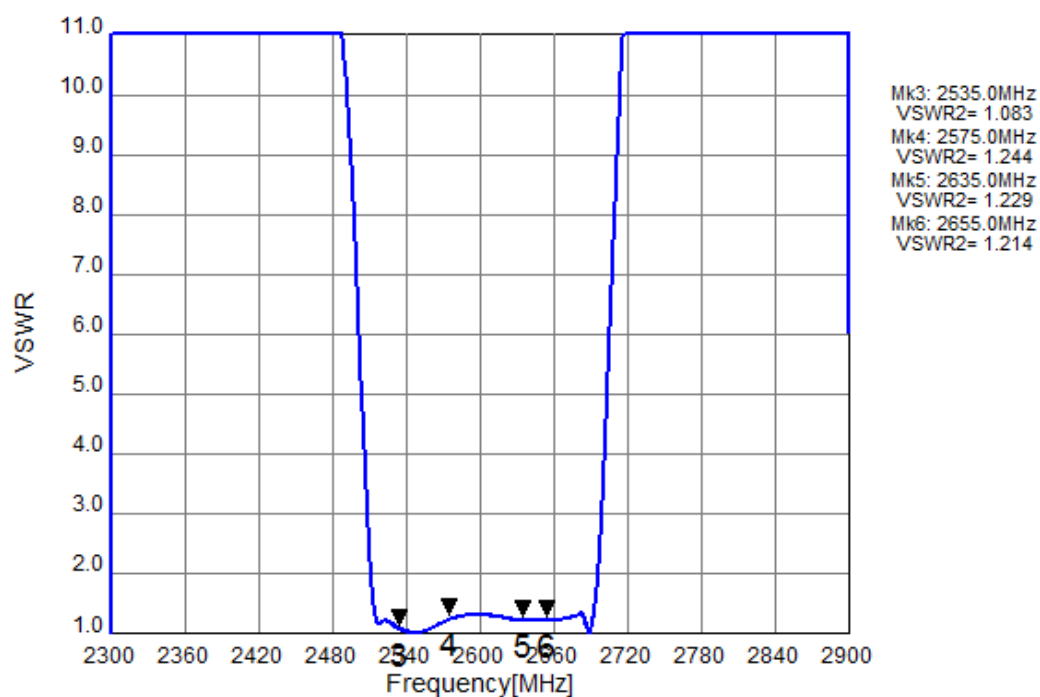


Figure 4-3. Electrical Characteristics



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Wide span

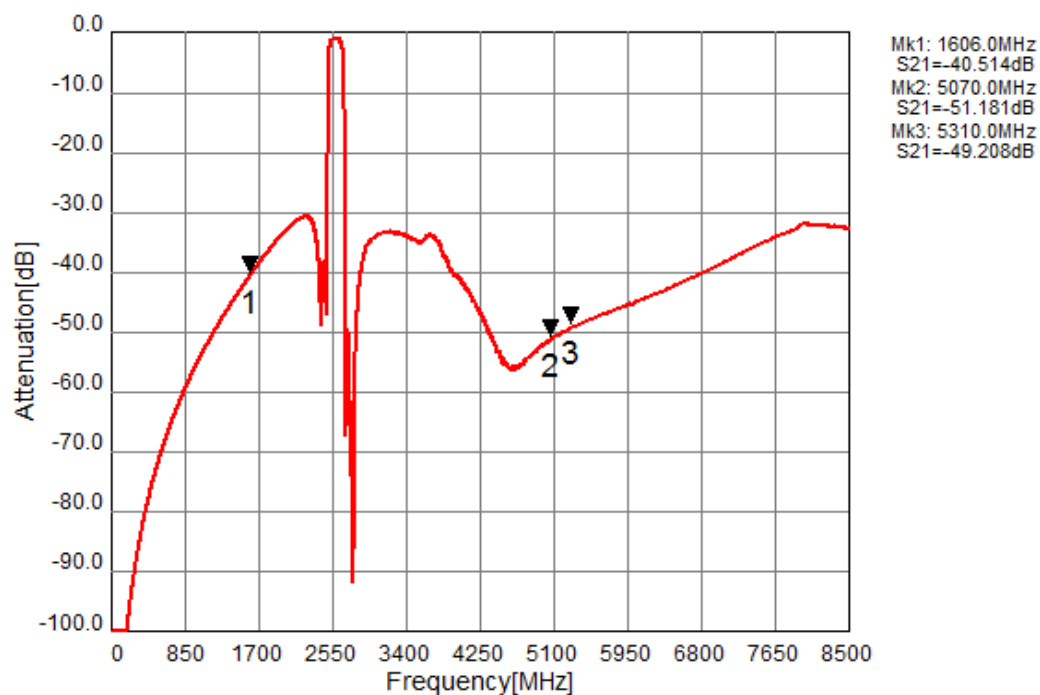


Figure 4-4. Electrical Characteristics



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Ordering Code

Ordering Code	Packing	Reel size	Status
F6FC2G595H4PD-X	Tape & Reel	10,000 pcs.	MP
F6FC2G595H4PD-XA	Tape & Reel	less than 10,000 pcs.	MP
F6FC2G595H4PD-Q	Bulk	few pcs.	MP
F6FC2G595H4PD-J	Tape & Reel	5,000 pcs.	MP
F6FC2G595H4PD-JA	Tape & Reel	less than 5,000 pcs.	MP
F6FC2G595H4PD-Y	Tape & Reel	15,000 pcs.	MP
F6FC2G595H4PD-YA	Tape & Reel	less than 15,000 pcs.	MP

*Minimum order quantity (MOQ) is assigned for each inquiry, Please contact to Sales Representatives.

*MP : Mass Production



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Notice

- 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 specification 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 specification for any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.
- Information contained in this specification 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.
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- Caution for Export
Some of our products listed in this specification 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.