



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 39 Tx/Rx Filter	Date	Apr. 10, 2017
Part Number	F6FC1G900H4PB	Version 3.2cA	Final

Table 1. Electrical Specification

Item	Condition (MHz)	Specifications			Unit	Remarks	
		Min.	Typ.	Max.			
Insertion Loss	1880 ~ 1920	-	1.1	2.0	dB(*1)		
Ripple	1880 ~ 1920	-	0.3	1.3	dB		
VSWR	Ant	1880 ~ 1920	-	1.3	2.0	-	
	Tx/Rx	1880 ~ 1920	-	1.3	2.0	-	
Input Power	1880 ~ 1920	+29dBm , 50% duty cycle 50°C , 5000Hr			-		
Absolute attenuation	10 ~ 880	35	39	-	dB		
	880 ~ 960	33	38	-	dB		
	1805 ~ 1830	35	41	-	dB		
	1830 ~ 1850	14	30	-	dB		
	2010 ~ 2025	40	51	-	dB		
	2300 ~ 2400	32	39	-	dB		
	2400 ~ 2500	32	40	-	dB		
	3760 ~ 3840	26	40	-	dB		
Terminating Impedance	Tx/Rx port	50//8.2nH			Ω		
	Ant port	50//15nH			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. x W typ. x H max.)	1.1 x 0.9 x 0.44			mm			

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

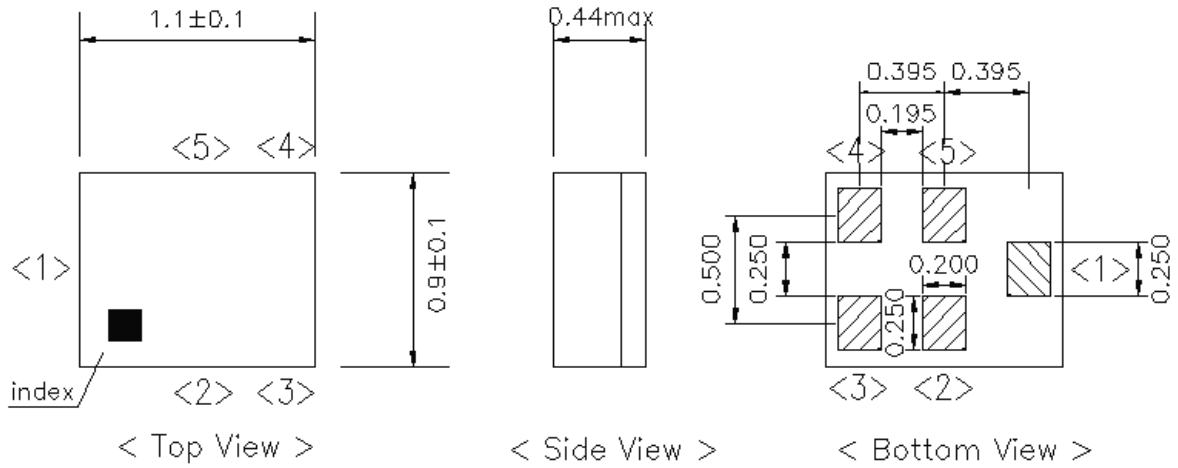


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Dimensions



Unit: mm

Pin assignment

Pin No.	Pin name	Description
1	Tx/Rx	Transmitter/Receiver
2	GND	Ground
3	GND	Ground
4	Ant	Antenna
5	GND	Ground

Figure 1. Dimensions and Pin assignment

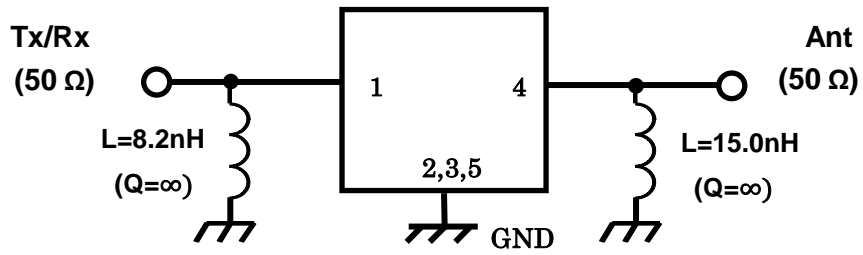


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Evaluation circuit



1 to 5: Pin No.

Recommended foot print pattern

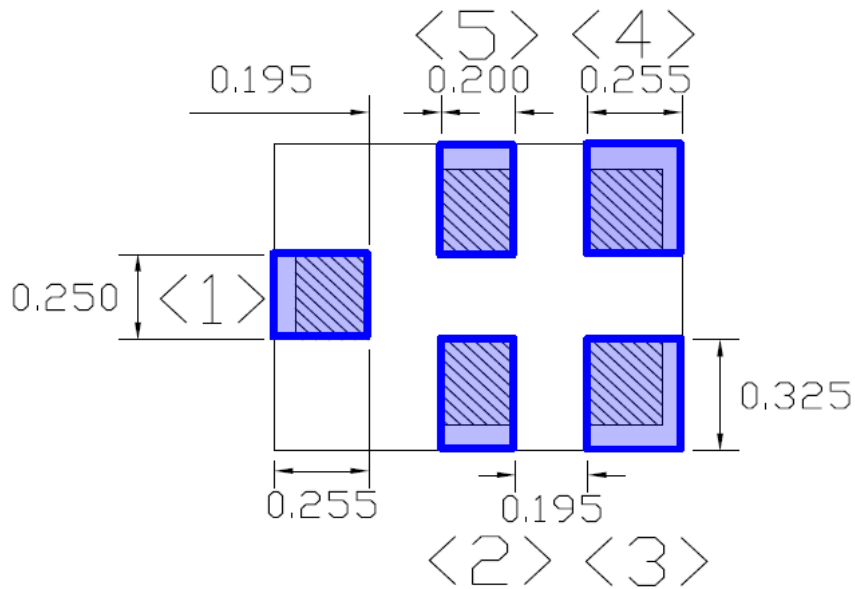


Figure 2. Evaluation circuit and Recommended foot print pattern

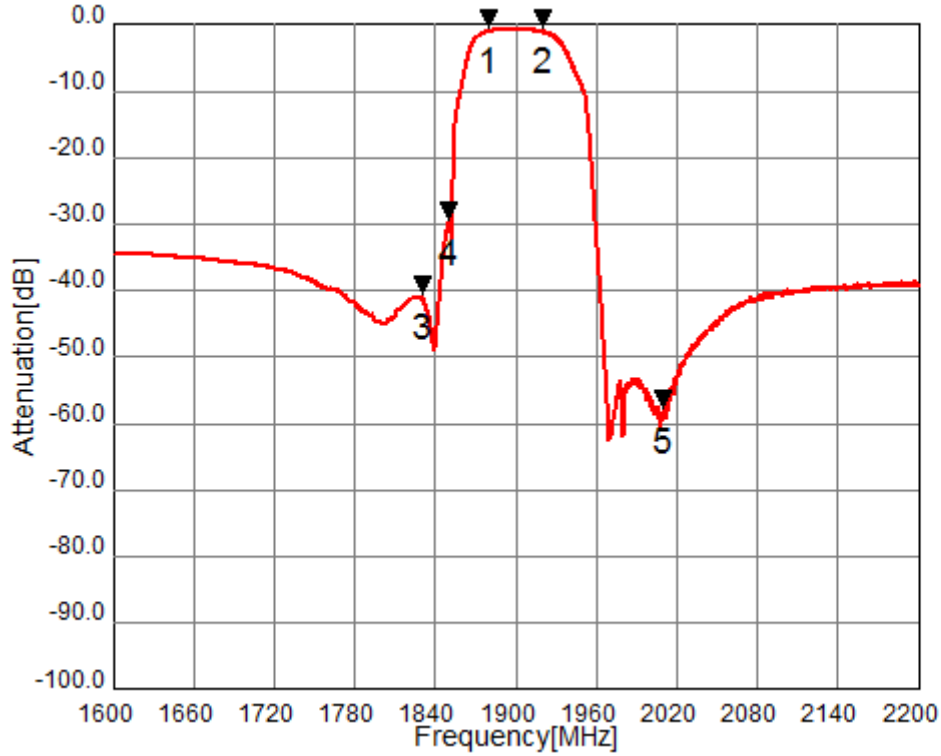


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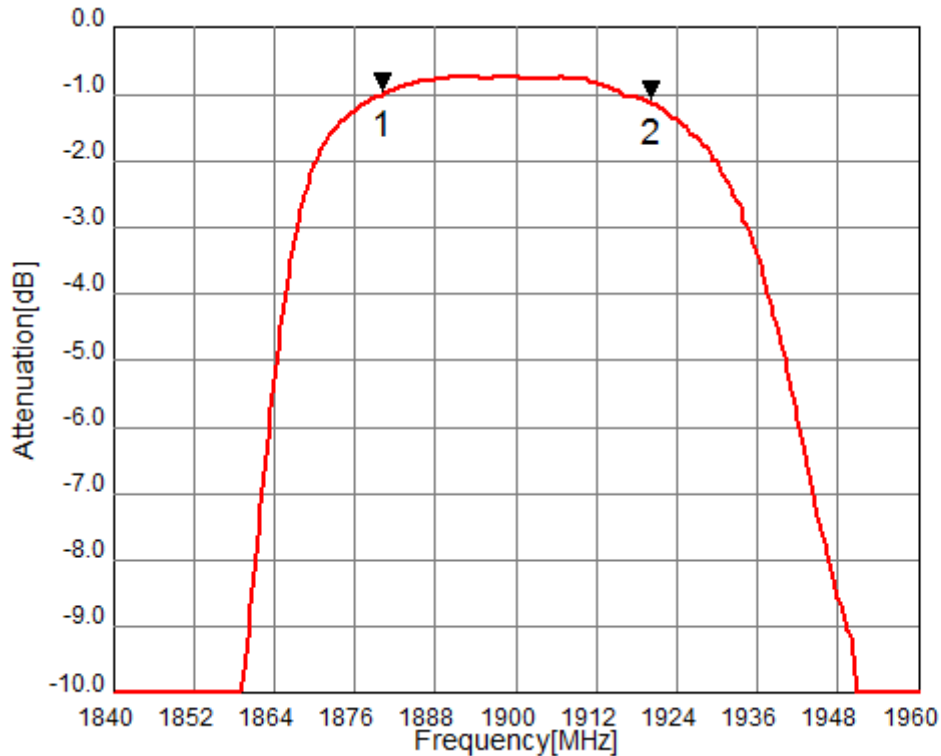
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Passband



- Mk1: 1880.0MHz
S21=-0.998dB
- Mk2: 1920.0MHz
S21=-1.138dB
- Mk3: 1830.0MHz
S21=-41.201dB
- Mk4: 1850.0MHz
S21=-29.884dB
- Mk5: 2010.0MHz
S21=-58.168dB



- Mk1: 1880.0MHz
S21=-0.998dB
- Mk2: 1920.0MHz
S21=-1.138dB

Figure 3-1. Electrical Characteristics

These data excludes loss that comes from the test board.



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Ant Port

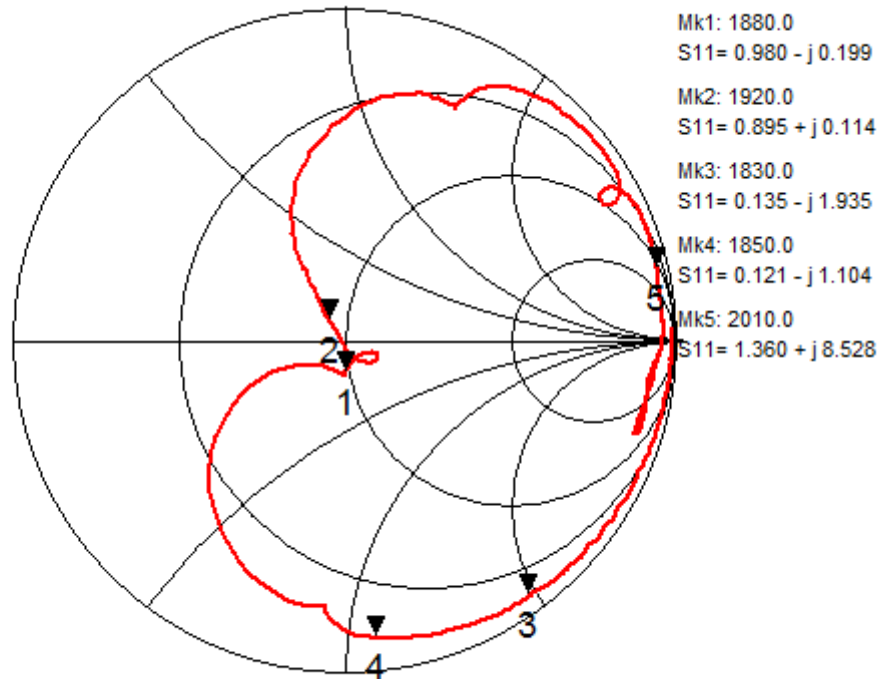
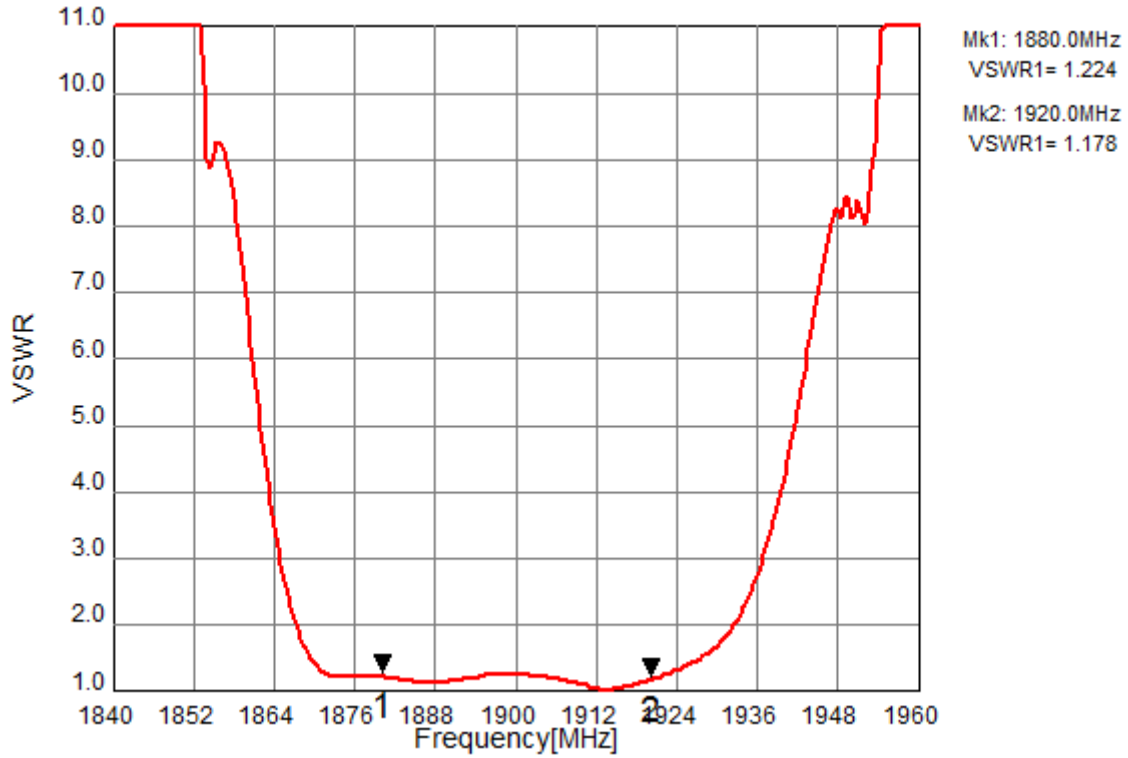


Figure 3-2. Electrical Characteristics



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Tx/Rx Port

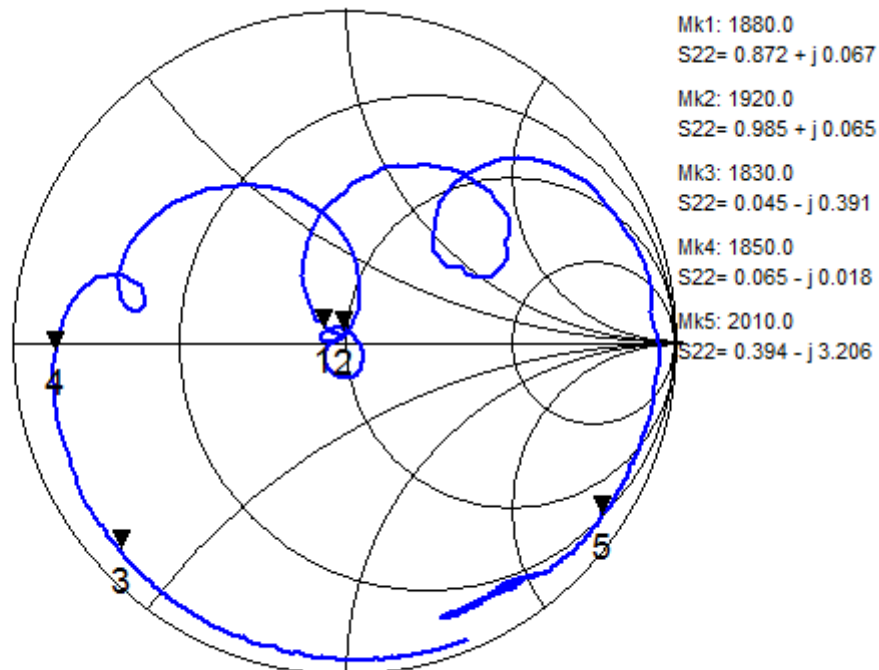
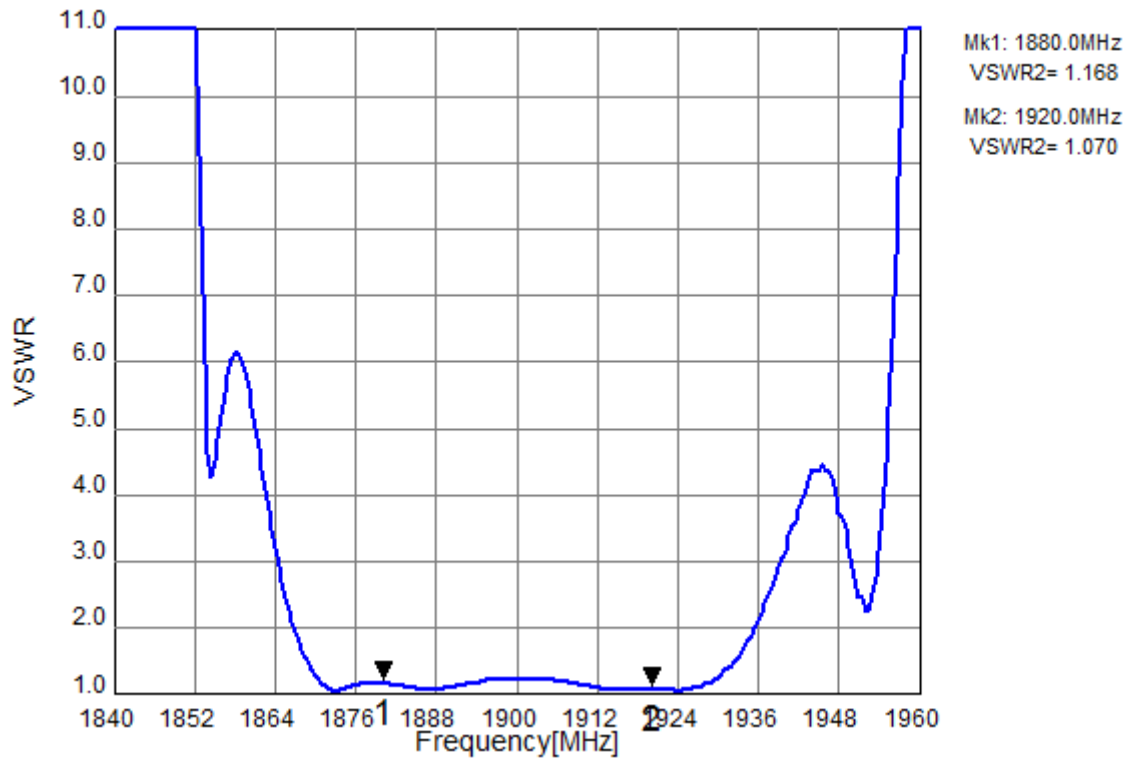


Figure 3-3. Electrical Characteristics



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Wide span

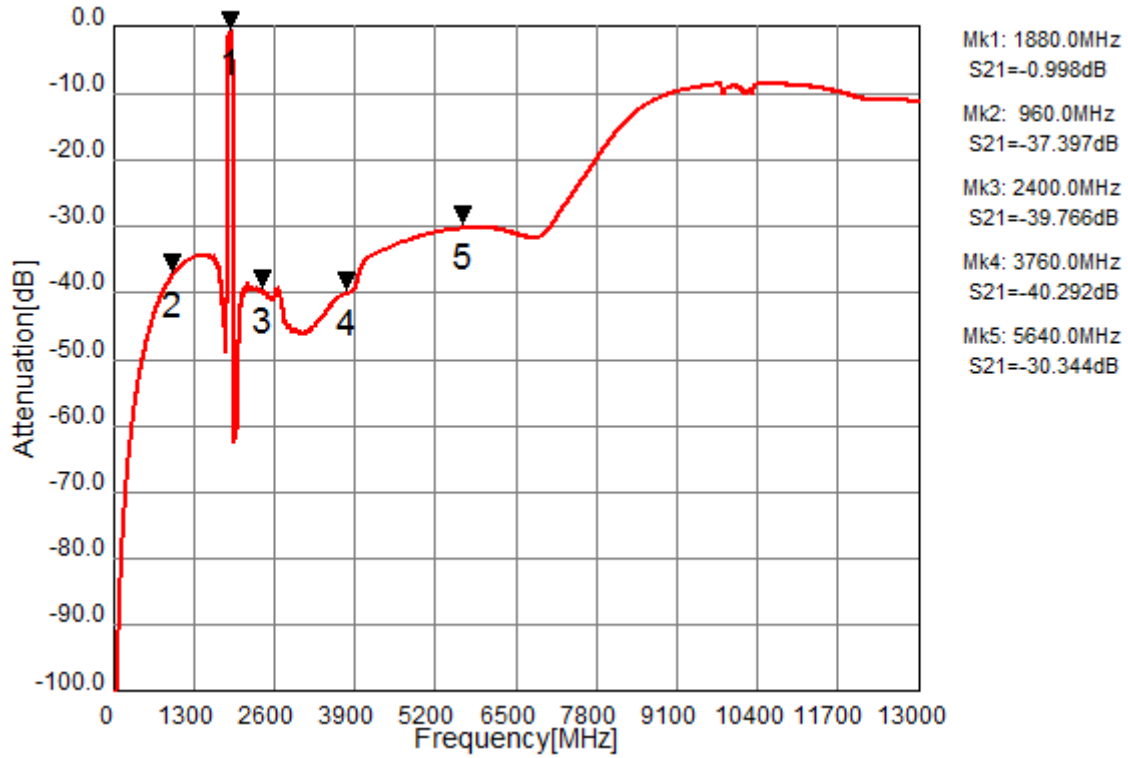


Figure 3-4. Electrical Characteristics



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Ordering Code

Ordering Code	Packing	Reel size	Status
F6FC1G900H4PB-X	Tape & Reel	10,000 pcs.	MP
F6FC1G900H4PB-XA	Tape & Reel	less than 10,000 pcs.	MP
F6FC1G900H4PB-Q	Bulk	few pcs.	MP

Option Ordering Code	Packing	Reel size	Status
F6FC1G900H4PB-J	Tape & Reel	5,000 pcs.	MP
F6FC1G900H4PB-JA	Tape & Reel	less than 5,000 pcs.	MP
F6FC1G900H4PB-Y	Tape & Reel	15,000 pcs.	MP
F6FC1G900H4PB-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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