

## 2.4/5GHz LPF/BPF type Diplexer

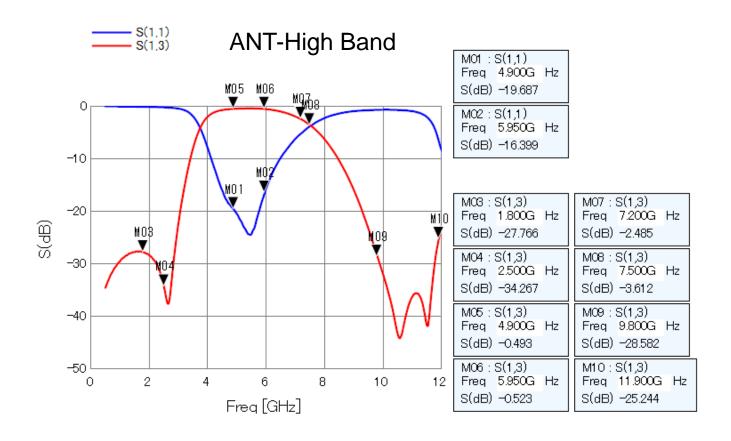
#### 1. Characteristics (at -40 $\sim$ + 85 °C)

Part Number		LFD212G45MJ7R816				
Pass Band Range	HB (f1)	5425.00 ± 525.00 MHz				
Fass band Mange	LB (f2)	2450.00 ± 50.00 MHz				
<high band=""> 5G, at</high>	t40 °C ~ +85 °C					
Insertion Loss	ANT - HB (f1)	at 25 °C	0.85 dB max.			
		at -40 ~ + 85 °C	0.95 dB max.			
Ripple	ANT – HB (f1)	0.40 dB max.				
V.S.W.R.	HB (f1)	2.20 max.				
Attenuation		1800.00 ~ 2500.00 MHz	25.0 dB min.			
	ANT - HB	9800.00 ~ 11900.00 MHz	15.0 dB min.			
<low band=""> 2.4G, at -40 °C ~ +85 °C</low>						
Insertion Loss		at 25 °C	0.45 dB max.			
	ANT - LB (f2)	at -40 ~ + 85 °C	0.55 dB max.			
Ripple	ANT - LB (f2)	0.30 dB max.				
V.S.W.R.	LB (f2)	1.80 max.				
	ANT - LB	4800.00 ~ 6000.00 MHz	20.0 dB min.			
Attenuation	ANT - LB	7200.00 ~ 7500.00 MHz	20.0 dB min.			
<ant port=""> at -40 °</ant>	°C ~ +85 °C					
	ANT (f1)	2.20 max.				
V.S.W.R	ANT (f2)	1.80 max.				
Power Capacity (ANT – HB, ANT - LB)		1.0 W max.				
LB: Low Band Port						

HB: High Band Port

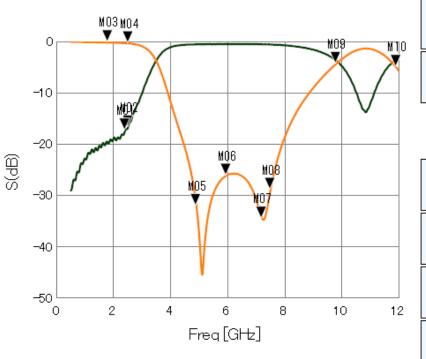
ANT: Common Port





ANT-Low Band

S(2,2) S(2,3)

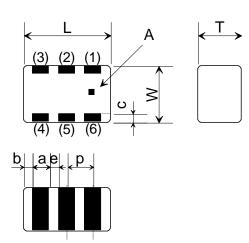


M01 : S(2,2) Freq 2.400G Hz S(dB) -17.370 M02 : S(2,2) Freq 2.500G Hz S(dB) -16.739

M03 : S(2,3)	M07 : S(2,3)
Freq 1.800G Hz	Freq 7.200G Hz
S(dB) -0.167	S(dB) -34.504
M04 : S(2,3)	M08 : S(2,3)
Freq 2.500G Hz	Freq 7.500G Hz
S(dB) -0.318	S(dB) -28.831
M05 : S(2,3)	M09 : S(2,3)
Freq 4.900G Hz	Freq 9.800G Hz
S(dB) -32.037	S(dB) -4.320
	M10:S(2,3)



### 2. Construction, Dimensions & Marking



	Mark			Meaning	ç.	
	А	Directi	Directional Input Mark			
_	(in					
ĺ	Mark	Dimen	sion	Mark	Dimension	
	L	2.00±0	0.15	b	$0.20 \pm 0.15$	
ſ	W	1.25±0	0.10	с	$0.30 \pm 0.20$	
ſ	Т	0.50 N	lax	е	$0.35 \pm 0.10$	
ľ	а	0.30±0	0.15	р	$0.65 \pm 0.05$	

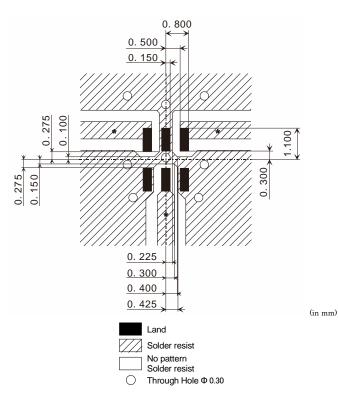
Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	GND	(4)	P1
(2)	P3	(5)	GND
(3)	GND	(6)	Ρ2

 $\operatorname{P1}$  : Higher Frequency Port

P2: LowerFrequency Port

P3 : Common Port

#### 3. Land Pattern



\* Line width to be designed to match 50 ohm characteristic impedance, Depending on PCB material and thickness.



# $\Delta$ CAUTION

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- Aerospace equipment

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