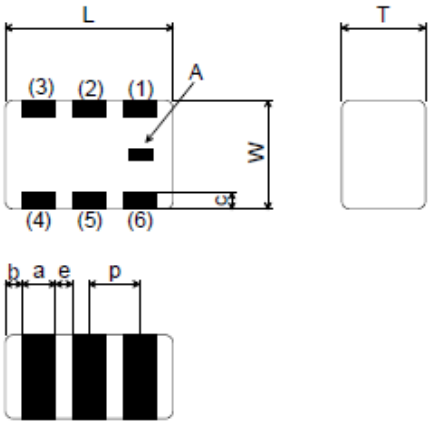
Balance Matching BAND PASS FILTER (Preliminary)

1. Characteristics (at 25 °C)

Part Number	LFB182G45BG2D280	
Unbalance Port Impedance (Nominal)	50 Ω	
Balance Port Impedance (Nominal)	Conjugate match to TI CC253x, CC254x, CC8520	
Frequency Range (BW)	2450.00 ± 50.00 MHz	
Insertion Loss in BW	1.75 dB max. at 25 °C 1.95 dB max. at -40 ~ +85 °C	
Attenuation	20.0 dB min. at 25 °C 19.0 dB min. at -40～+85 °C	@ 4800.00 ~ 5000.00 MHz
	20.0 dB min. at 25 °C 19.0 dB min. at -40～+85 °C	@ 7200.00 ~ 7500.00 MHz
Unbalance Port V.S.W.R. in BW	1.90 max.	
Balance Port V.S.W.R. in BW	2.30 max.	
Power Capacity	500 mW max.	

2. Construction,Dimensions&Marking



(in mm)

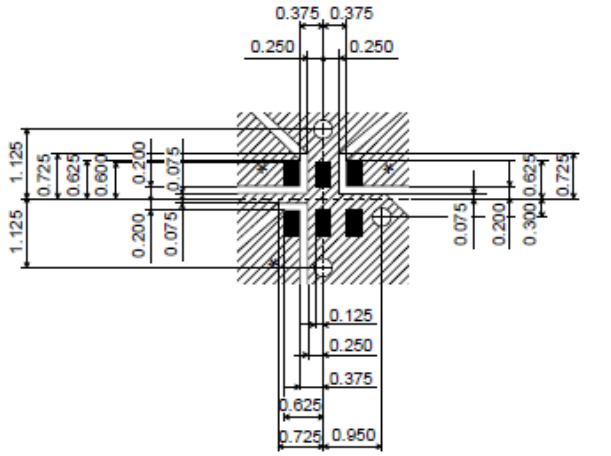
Mark	Meaning
A	Directional Input Mark

Mark	Dimension	Mark	Dimension
L	1.6±0.1	b	0.20+0.10/-0.15
W	0.8±0.1	c	0.15±0.10
T	0.7 max.	e	0.3±0.1
a	0.2±0.1	p	0.50±0.05

TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	Unbalance Port	(4)	Balance Port
(2)	GND	(5)	GND
(3)	Balance Port	(6)	GND

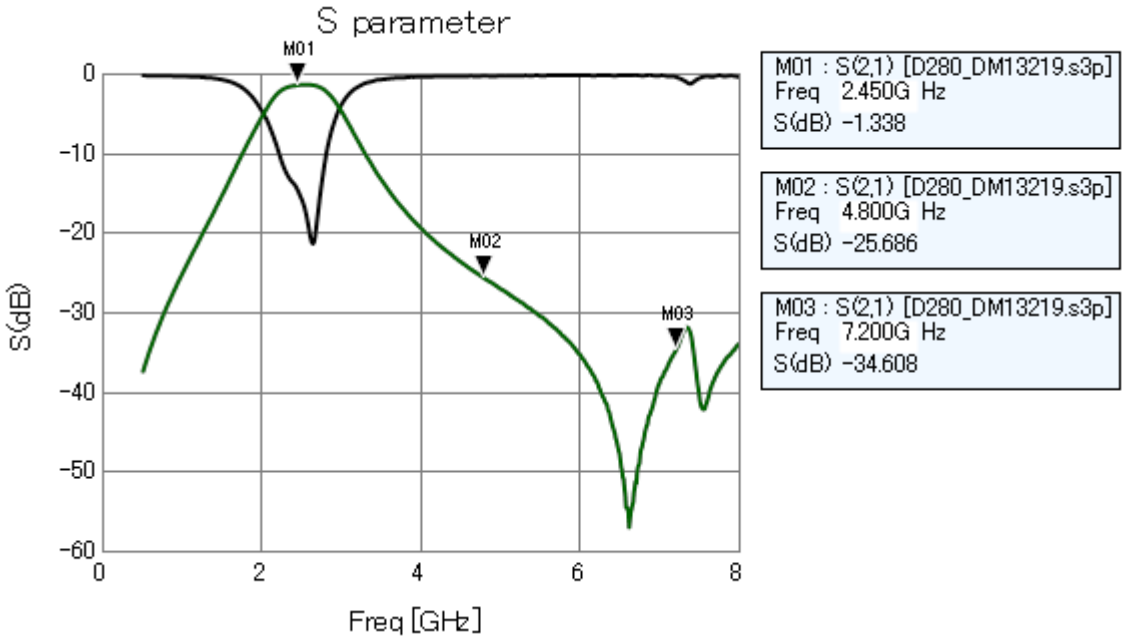
3. Land Pattern



(in mm)

*Line width to be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

4. Application Data (Waveform, at 25 °C)



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