

MULTILAYER DEVICES

WIDEBAND DIPLEXER FOR DUAL BAND

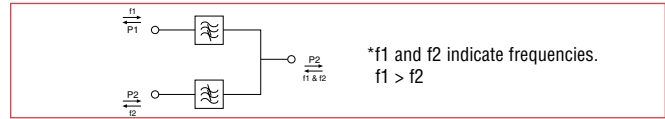
LFDP15/20 Series



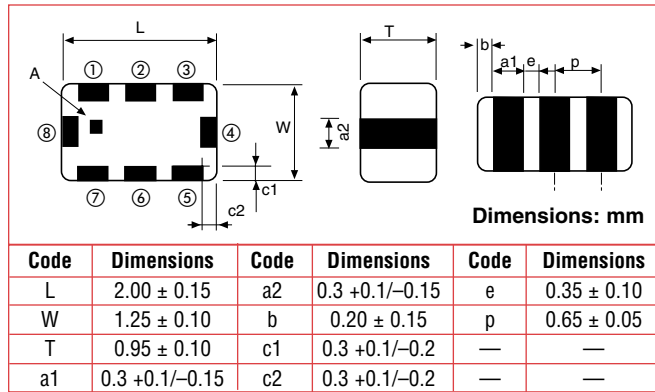
FEATURES

- Ultraminiature SMD type, reflow solderable
- External dimensions: 3.2 x 1.6 x 1.1mm
- Low insertion loss, high isolation, no distortion
- No power consumption
- Adjustment-free
- Antenna matching circuit can be integrated depending on customer's requirement

EQUIVALENT CIRCUIT



LFDP15 TYPE

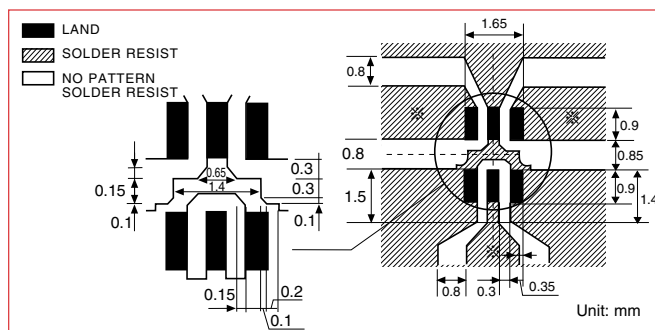


TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
①	P2 (*1)	⑤	GND
②	GND	⑥	P3 (*3)
③	P1 (*2)	⑦	GND
④	NC	⑧	NC

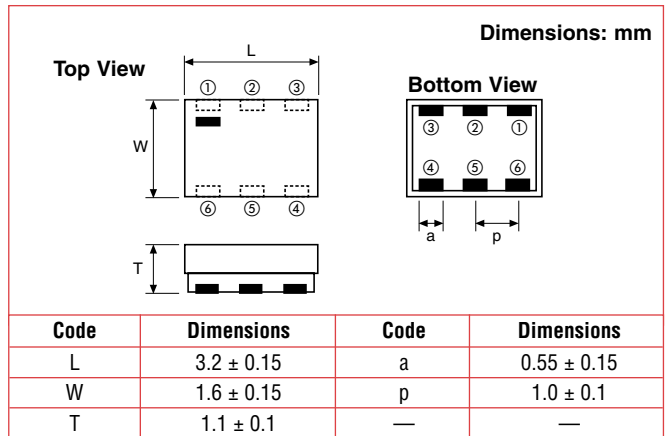
*1= Lower Frequency Port; *2= Higher Frequency Port; *3= Common Port.
Terminal of "NC" should be fixed to the no connected pattern.

LAND PATTERN



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

LFDP20 TYPE

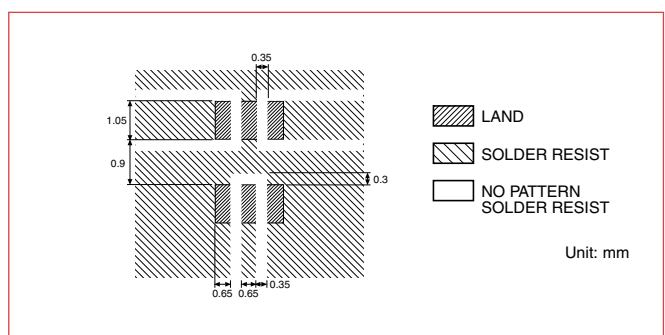


TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
①	P2 (*1)	④	GND
②	GND	⑤	P3 (*3)
③	P1 (*2)	⑥	GND

*1= Lower Frequency Port; *2= Higher Frequency Port; *3= Common Port.
Terminal of "NC" should be fixed to the no connected pattern.

LAND PATTERN



SPECIFICATIONS (−40 to +85°C)

Application	Part Number	Pass Band Range		Insertion Loss (dB max.)				Attenuation (dB min.)		VSWR (max.)		
		f1 (MHz)	f2 (MHz)	P1 ~ P3 (at f1)		P1 ~ P3 (at f2)		P1 ~ P3	P2 ~ P3	P1	P2	P3
				25°C	Over Temp.	25°C	Over Temp.	at f2	at f1	at f1	at f2	at f1, f2
AMPS/PCS	LFDP15N0039A	1920 ± 70	859 ± 35	0.45	0.55	0.40	0.50	19	20	1.70	1.70	1.70
	LFDP20N0022A	1920 ± 70	859 ± 35	0.45	0.55	0.40	0.50	20	20	1.55	1.55	1.55
GSM/DCS1800	LFDP15N0044A	1795 ± 85	920 ± 40	0.55	0.65	0.50	0.60	20	16	1.80	1.80	1.80
	LFDP20N0020A	1795 ± 85	920 ± 40	0.55	0.65	0.50	0.60	20	16	1.65	1.65	1.65
AMPS/PCS LO	LFDP15N0049A	1750 ± 30	967 ± 12.5	0.5	0.60	0.45	0.55	20	17	1.70	1.70	1.70
	LFDP20N0031A	1745 ± 35	965 ± 15	0.65	0.75	0.60	0.70	20	16	1.65	1.65	1.65

Power capacity: 3 Watts
This is a limited list. Other frequencies available.
CG01-J