



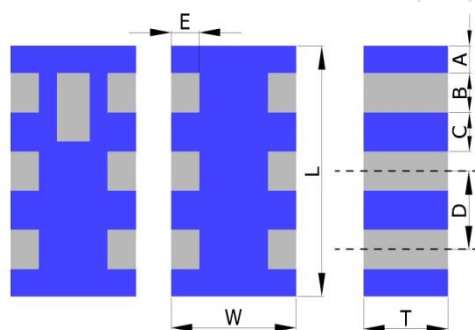
## PRODUCT FEATURES

1. Surface mount diplexer with a small size of 2.0 X 1.25 X 0.80 mm, RoHS compliant.
2. Provide low insertion loss and high attenuation.
3. Highly stable under temperature and humidity changes.

## RF CHARACTERISTICS

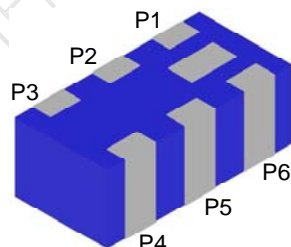
PN DP2552K0805AT	Specification	
Frequency range	2400-2500 MHz	5150-5850 MHz
Impedance	50 Ω	50 Ω
VSWR	2.0 max	2.0 max
Insertion Loss	2.0 dB max. at +25°C 2.4 dB max. -40°C to +85°C	1.0 dB max. at +25°C 1.4 dB max. -40°C to +85°C
Attenuation (min.)	30 dB @824 - 915 MHz 30 dB @1545 - 1610 MHz 30 dB @1710 - 1990 MHz 25 dB @2170 MHz 32 dB @4800 - 5000 MHz 28 dB @7200 - 7500 MHz	25 dB @1545 - 1610 MHz 30 dB @2400 - 2500 MHz 20 dB @10300 - 11700 MHz
Operation Temperature Range	-40°C to +85°C	

## PHYSICAL DIMENSIONS



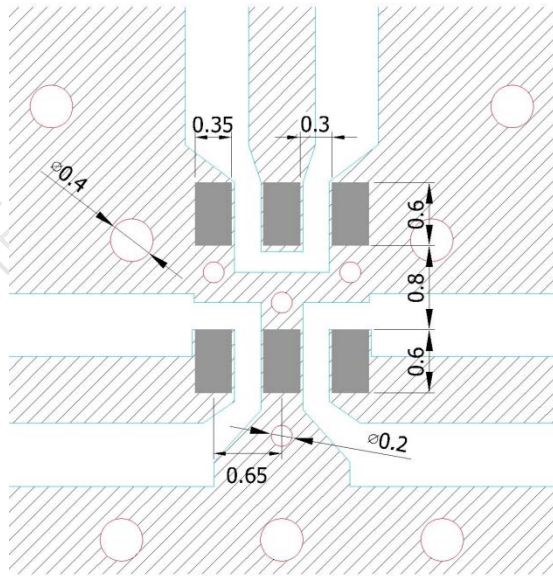
Symbol	Dimension (mm)
L	2.00 ± 0.20
W	1.25 ± 0.20
T	0.80 ± 0.10
A, E	0.20 ± 0.15
B	0.30 ± 0.15
C	0.35 ± 0.15
D	0.65 ± 0.15

## TERMINAL CONFIGURATION



PIN	Connection	PIN	Connection
P1	GND	P4	5 GHz port
P2	Common port	P5	GND
P3	GND	P6	2.4 GHz port

PCB DESIGN/LAYOUT CONSIDERATION



Note:

- Design trace width to be 50Ω impedance.

Typical RF Performance

