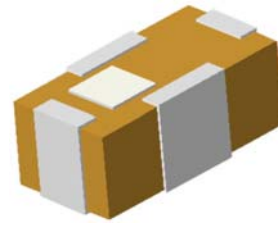


2.4GHz 1005 Low Pass Filter: LPF1005R240010K55**Applications:**

WLAN, 802.11b/g, Bluetooth, ISM Band...

Features

SMD, high reliability, ultra Impact...

**Part number**

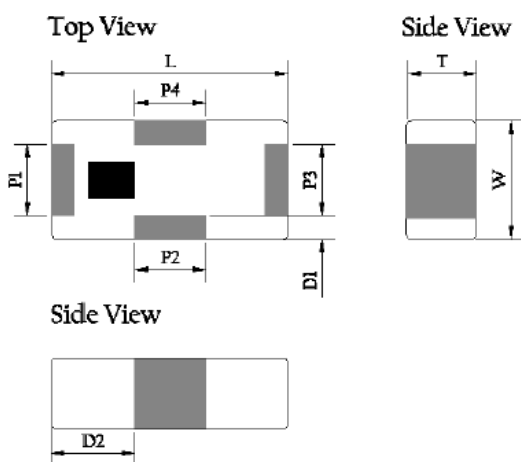
LPF 1005 R 2400 10K 55
 (1) (2) (3) (4) (5)

(1) Size Code	1.0x0.5mm
(2) Packing	Tape and reel
(3) Frequency	2.4GHz
(4) Packing Number	10K
(5) TYPE	55

Electrical Specification

Pass Band	2400~2500MHz
Impedance	50 Ohm
Insertion Loss	0.5 dB (Max) at 25°C
Attenuation	30 dB Min@ 4800 ~ 5000 MHz 30 dB Min@ 7200 ~ 7500 MHz
VSWR	2.0 (Max)
Operating Temperature	-40~+85°C

The specification is defined on EVB.

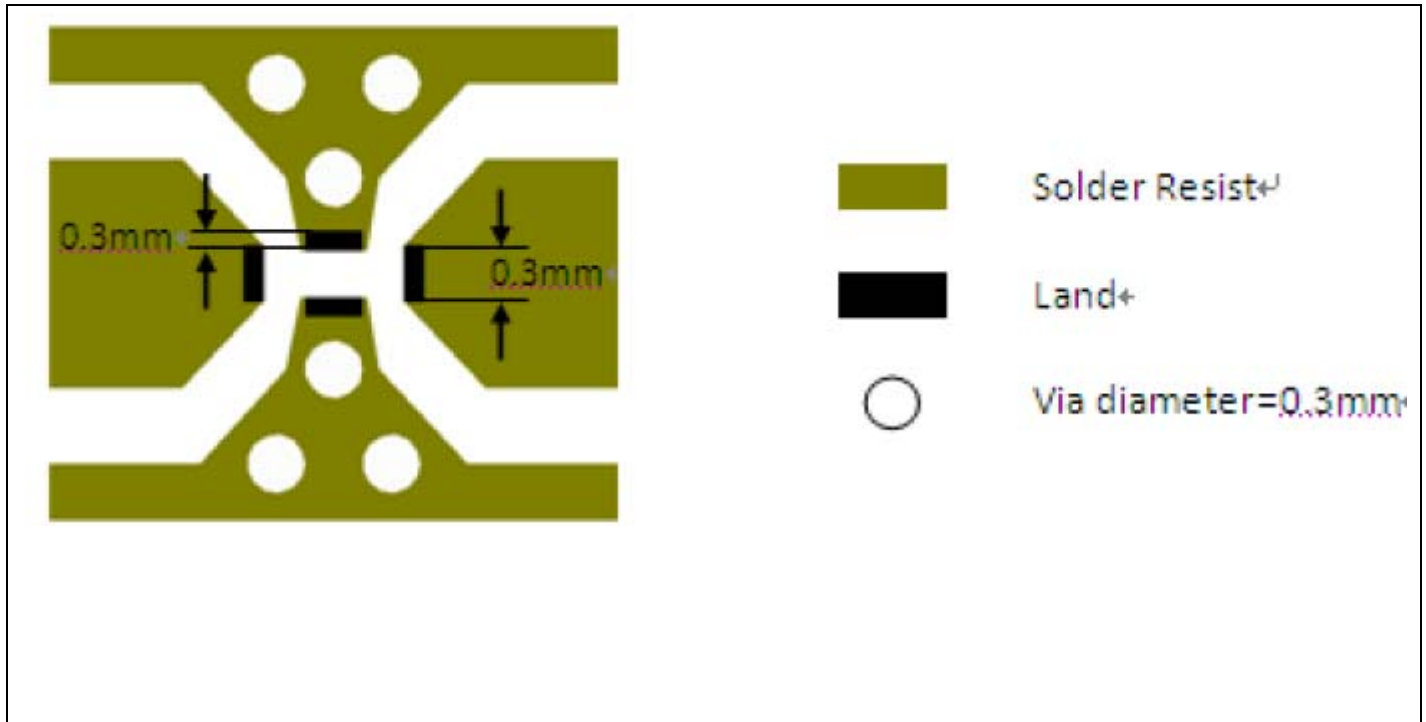
Dimension and Terminal Configuration

Dimension (mm)	
L	1.00±0.10
W	0.50±0.10
T	0.35±0.10
P1	0.30±0.15
P2	0.30±0.15
P3	0.30±0.15
P4	0.30±0.15
D1	0.10±0.10
D2	0.35±0.15

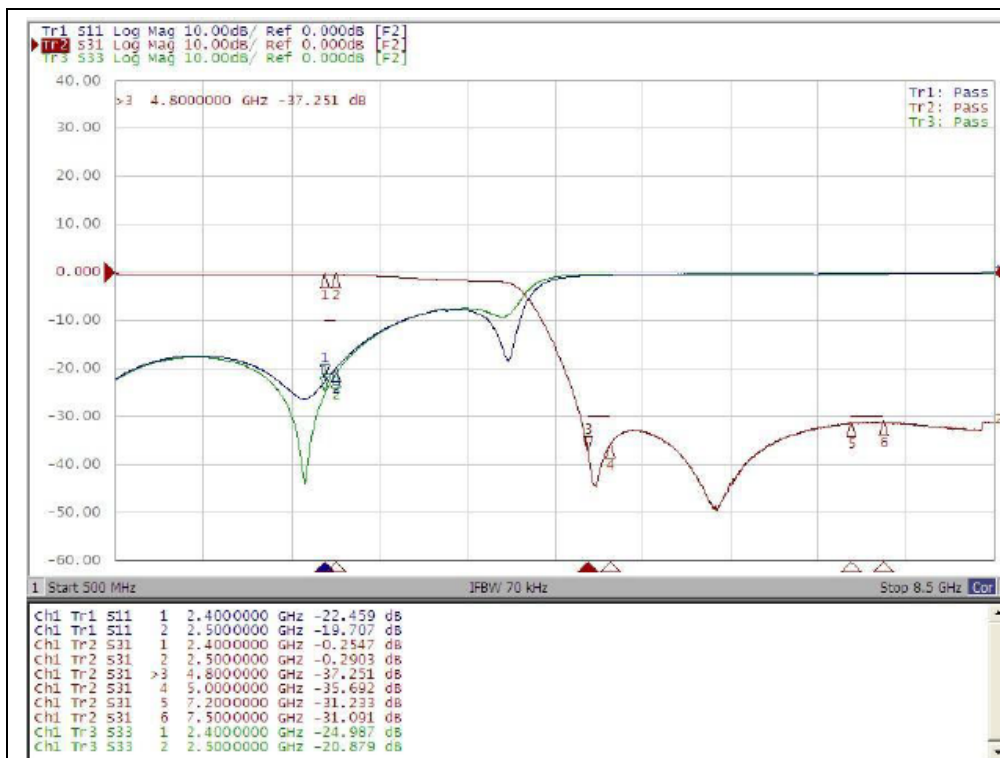
No.	Terminal Name
P1	Input
P2	GND
P3	Output
P4	GND

2.4GHz 1005 Low Pass Filter: LPF1005R240010K55

Evaluation Board Reference



Electrical Characteristics



Measured on Agilent E5071C

Network Analyzer

Input port : Port 1 (Return loss : S11)

Output port : Port 3 (Return loss : S33)

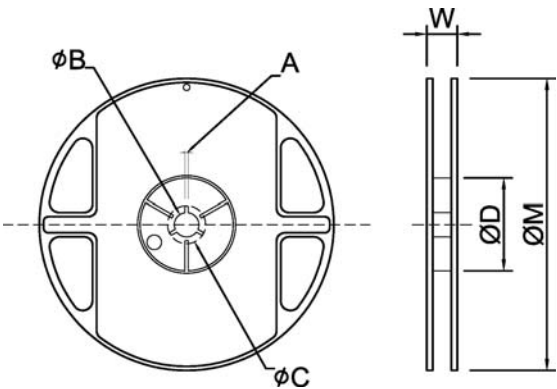
Insertion loss : S31

2.4GHz 1005 Low Pass Filter: LPF1005R240010K55

Taping Specifications

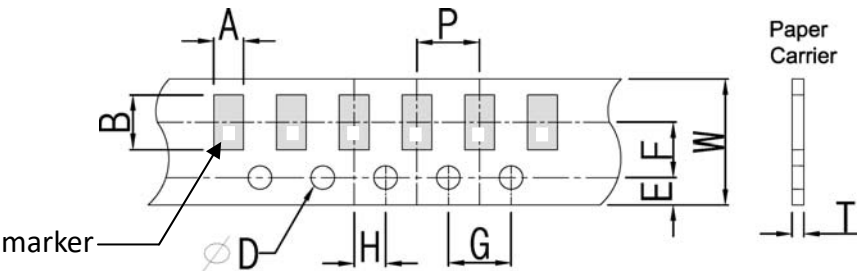
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	ψB	ψC	ψD	W	ψM
1005	7"	10K/Reel	2.0±0.5	13.5±1.0	21±1.0	60±1.0	11.5±2.0	178±2.0

Tapping Specification

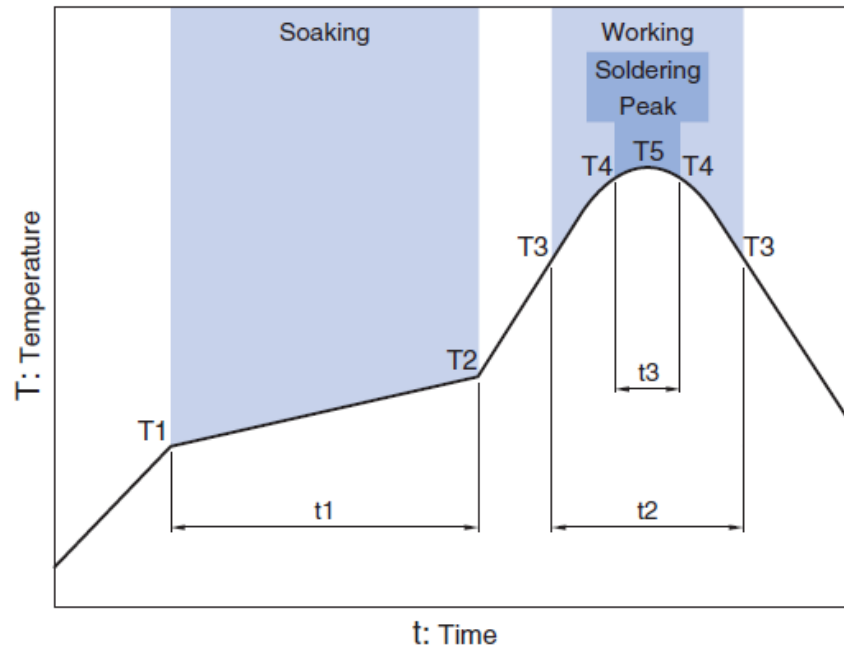


Packaging	Type	A	B	W	E	F	G	H	T	ψD	P
Paper Type	1005	1.00±0.20	1.55±0.20	8.0±0.20	1.75±0.10	3.3±0.05	4.0±0.10	2.0±0.05	0.75±0.10	1.50 ^{+0.10} ₋₀	4.0±0.1

2.4GHz 1005 Low Pass Filter: LPF1005R240010K55

Recommended Reflow Profile

Pb free solder



Soaking			Working		Soldering		Peak
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.