SOSHIN

MULTILAYERED FILTERS

CompoTRON

MDR 641C **Bandpass 2.45GHz** **Multilayer Dielectric Series**

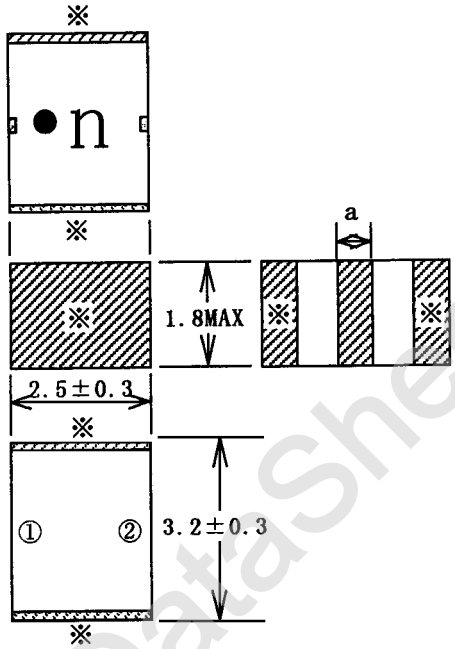
Product Features

- Small size
- Low loss and high attenuation
- SMD and reflow soldering is available

Applications

- Bluetooth / ISM 2.4

Dimension (Unit : mm)



Terminal	
①	Input
②	Output
※	GND

a=0.6±0.2

Electrical Characteristics

1. Zin & Zout	:	50Ω Nominal
2. fc	:	2450MHz Nominal
3. Pass Band	:	2400～2500MHz
4. Insertion Loss	:	1.5 dB MAX. (2400～2500MHz :at 25℃)
	:	2.0 dB MAX. (2400～2500MHz :-20～+60℃)
5. Ripple	:	0.8 dB MAX. (2400～2500MHz)
6. V.S.W.R	:	2.0 MAX. (2400～2500MHz)
7. Attenuation	:	25 dB MIN. (at 1750MHz)
	:	25 dB MIN. (at 2100MHz)
	:	22 dB MIN. (4800～5000MHz)

Minimum Ordering Quantity : 2,000pcs (per reel, per bag)

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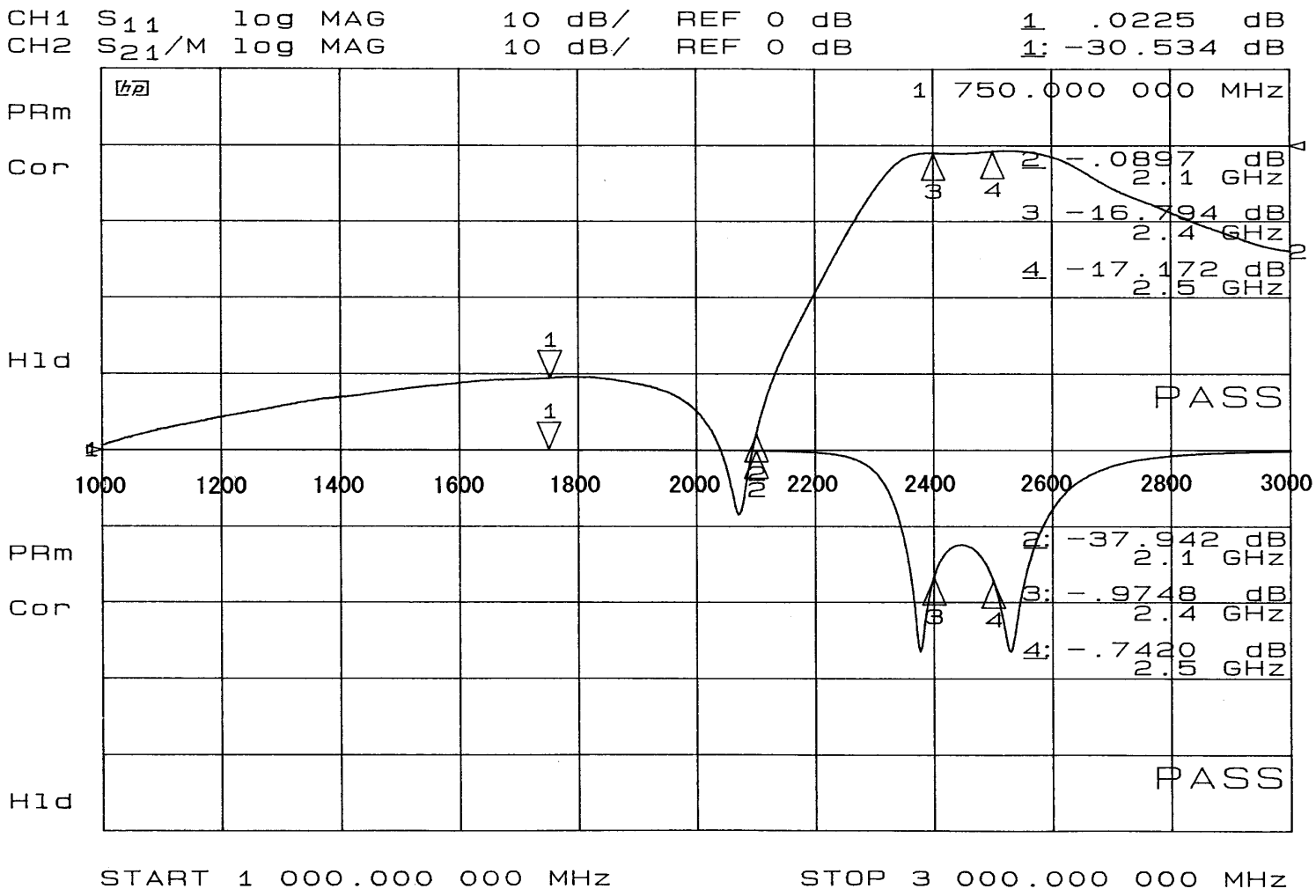

TYPE
MDR641C

CH1(S11)
MARK
1 : 1750 MHz
2 : 2100 MHz
3 : 2400 MHz
4 : 2500 MHz

CH2(S21)
MARK
1 : 1750 MHz
2 : 2100 MHz
3 : 2400 MHz
4 : 2500 MHz

Measurement
Instrument
HP8753D
NETWORK
ANALYZER

Date
2000/11/16
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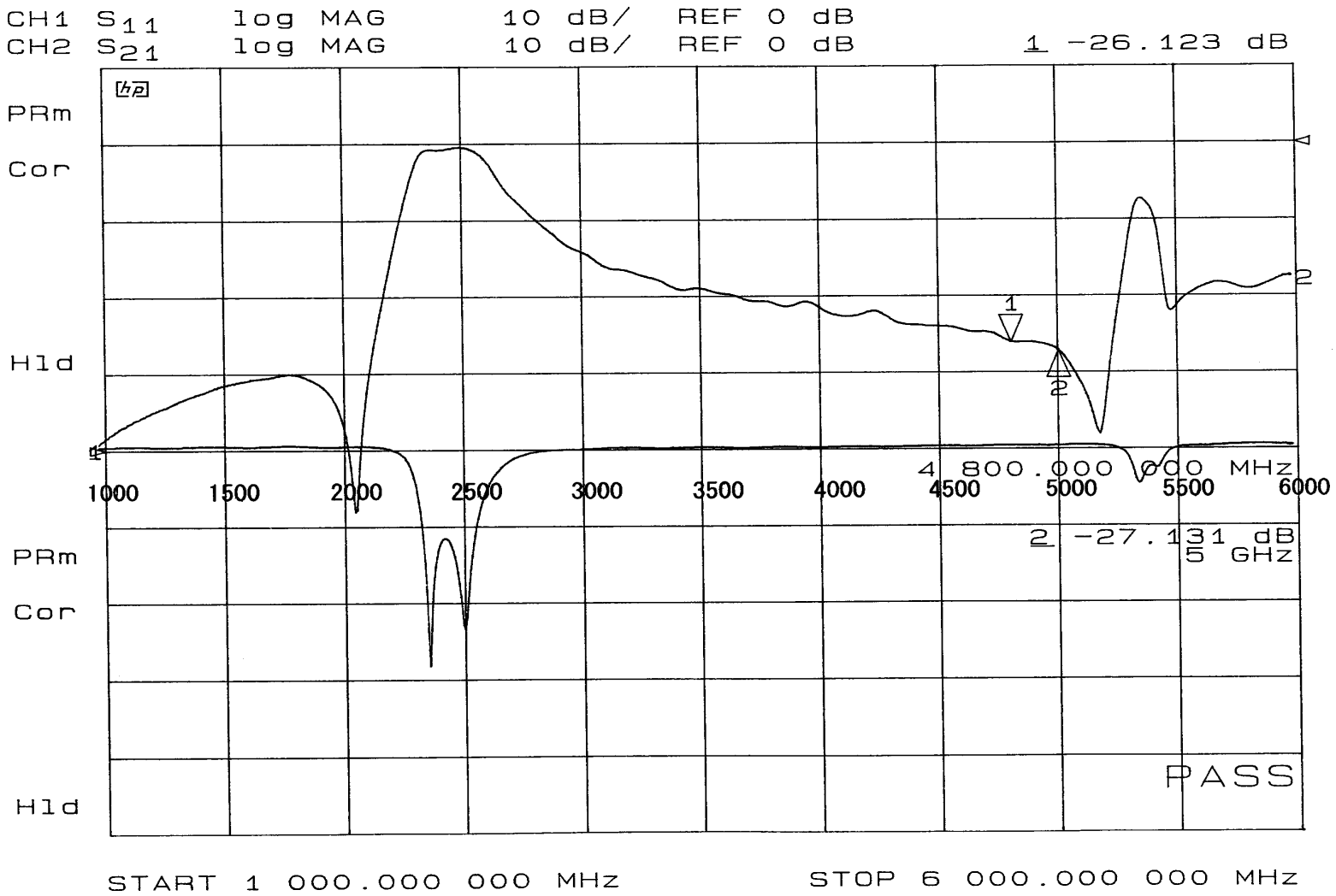

TYPE
MDR641C

MARK
1 : 4800 MHz
2 : 5000 MHz

Measurement
Instrument
HP8753D
NETWORK
ANALYZER

Date
2000/11/16
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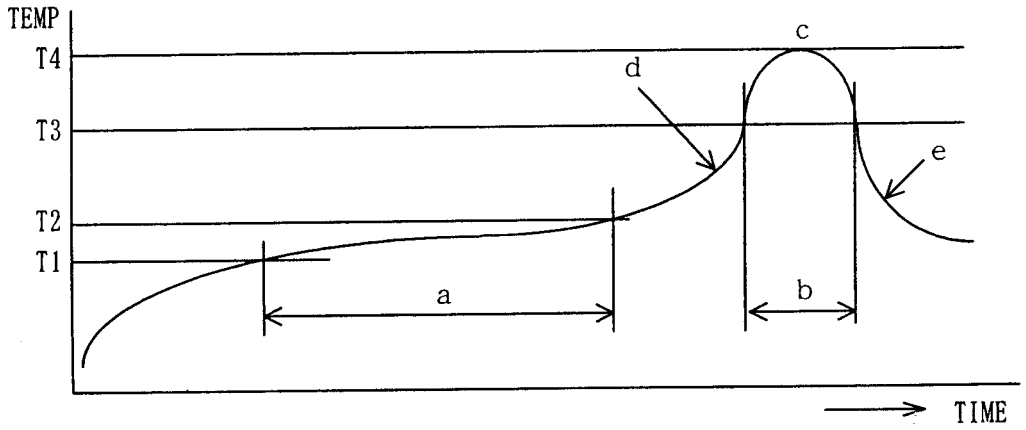
Reflow-soldering conditions (For reference)



(1) High temperature reflow-soldering conditions (No more than 2 flows allowed)
T1 : 130±10℃ , T2 : 150±10℃ , T3 : 200℃ , T4 : 240℃
a : Preheating 40 to 120 seconds
b : Heating 50 seconds
c : Peak temperature 240℃, max.
d : Temperature rising slope 10℃／1 second, max.
e : Temperature falling slope 8℃／1 second, max.

Dip-soldering conditions (For reference)
(1) Preheating : 100 to 150℃
(2) Solder bath temperature : 260±5℃
(3) Dipping time : 5±1 seconds

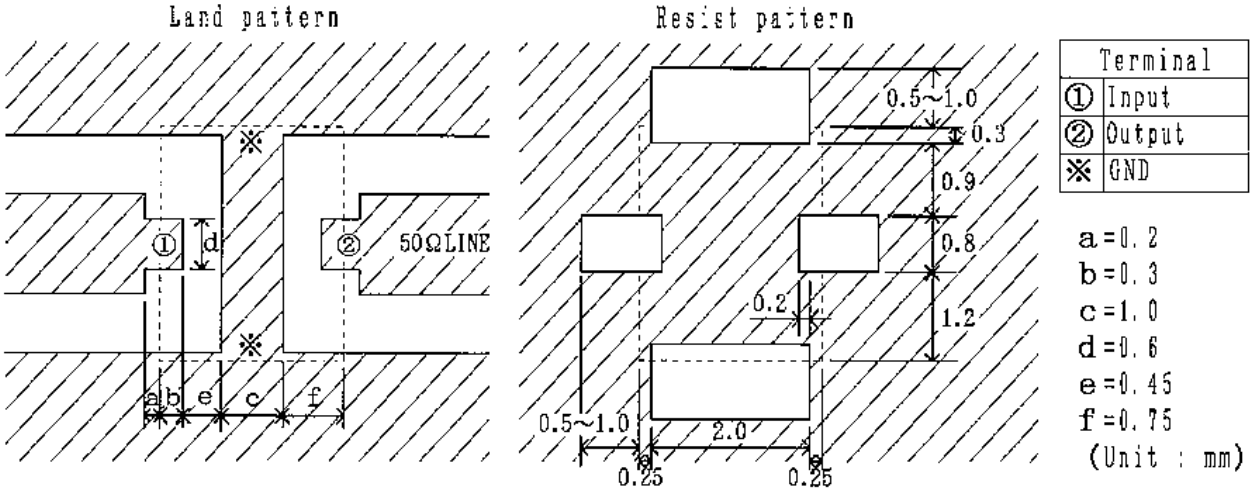
Cleaning conditions
(1) Cleaning agent : Isopropyl alcohol
(2) Dip cleaning : 30 minutes, max., at 40℃
(3) Vapor cleaning : 30 minutes, max.
(4) Ultrasonic cleaning : 1 minutes, max, with a maximum power of 10w

Recommended Repair Soldering Conditions

(1) Preheating Conditions
The temperature difference between soldering iron and device surface must be under 100℃.

(2) Recommended Condition of Soldering Iron
① Power : 20W MAX.
② Chip temperature : 270℃ MAX.
③ Dimension of iron chip : ～1 ϕ
④ Soldering time : 3 Seconds MAX.

Recommendation Pattern (Unit : mm)



Terminal	
①	Input
②	Output
※	GND

a=0.2
b=0.3
c=1.0
d=0.6
e=0.45
f=0.75
(Unit : mm)

Example : t=1.0mm
Glass-epoxy board