HF 3225 Series



Multilayer Chip High-Pass Filters

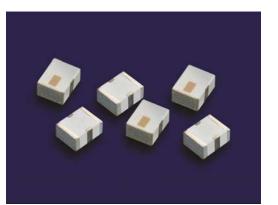
Features

Ultra small SMD type with low loss at passband and high attenuation at stop-band.

Applications

•0.8 ~ 6 GHz wireless communication systems, including DECT/PACS/PHS/GSM/DCS phones, WLAN card, Bluetooth modules, Hyper-LAN, etc.

Specifications

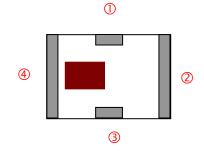


Part Number	Freq. Range (MHz)	Insertion Loss @ BW (dB)	VSWR @ BW	Ripple (dB)	Attenuation (dB)
HF3225- K1R9EAB_	1650 ~ 2150	2.0 max.	2.2 max.	0.35 max. @ 1650 ~1675MHz (+ 25°C)	27 min. @ 950 ~1450MHz
Storage Period : 12 months m *12 months in vacuum sealed bag and 1 week after			r opened. e is recommended		

Part Number

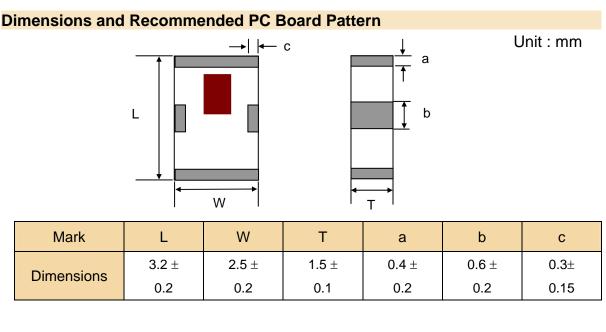
	<u>HF 3225</u> - <u>K</u> <u>1</u>	<u>R9</u> <u>EAB</u> <u>/LF</u>	
	0 2 3 0	4 5 6 7	
① Туре	HF : High-Pass Filter	② Dimensions (L × W)	3.2 × 2.5 mm
③ Material Code	к	④ Frequency Range	1R9=1900MHz
Specification Code	EAB	6 Packaging	T: Tape & Reel B: Bulk
Soldering	=lead-containing /LF=lead-free		

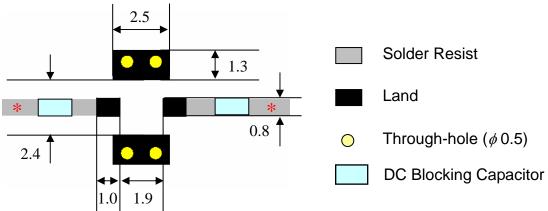
Terminal Configuration



No.	Terminal Name	No.	Terminal Name
()	IN	3	OUT
2	GND	4	GND



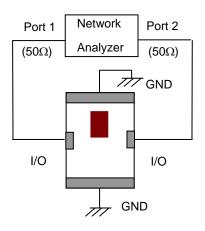




* Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

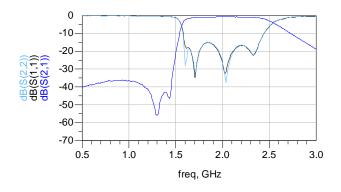
* DC Blocking capacitor is connected in series at each In/Out Port.

Measuring Diagram





Electrical Characteristics (T=25°C)



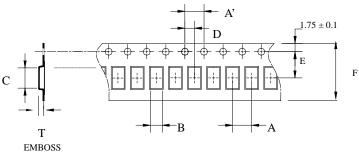
Notes

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Taping Specifications

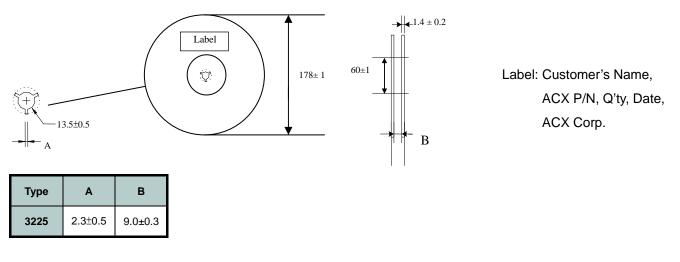
☆Tape Dimensions (Unit: mm) & Quantity



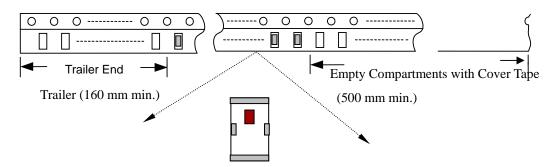
TAPE

Туре	А	A'	В	С	D	E	F	т	Quantity/reel	Tape material
3225	4.0±	4.0±	2.75±	3.45±	2.0±	3.5±	8.0±	1.70±	2,000pcs	Plastic
3225	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10		(Embossed)

*Reel Dimensions (Unit: mm)

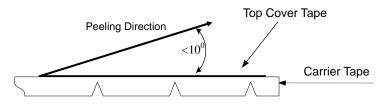


*Leader and Trailer Tape (Plastic material)





*Peel-off Force



Peel-off force should be in the range of 0.1 - 0.6 N at a peel-off speed of 300 ± 10 mm/min .

Storage Conditions

- (1) Temperature: $15 \sim 35^{\circ}$ C, relative humidity (RH): $45 \sim 75^{\circ}$ C.
- (2) Non-corrosive environment.

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Mechanical & Environmental Characteristics

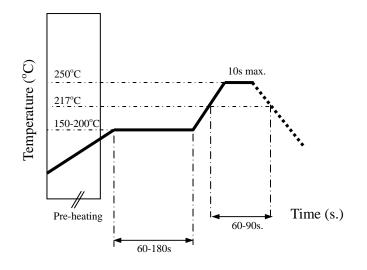
Item	Requirements	Procedure
Solderability	 No apparent damage More than 75% of the terminal electrode shall be covered with new solder 	
Soldering strength (Termination Adhesion)	1. 1kg minimum	 Solder specimen onto test jig. Apply push force at 0.5mm/s until electrode pads are peeled off or ceramic are broken. Pushing force is applied to longitude direction
Deflection (Substrate Bending)	 No apparent damage Fulfill the electrical specification 	 Solder specimen onto test jig (FR4, 0.8mm) using the recommend soldering profile. Apply a bending force of 2mm deflection Pressure Rod R230 90mm 90mm 90mm 1
Heat/Humidity Resistance	 No apparent damage Fulfill the electrical specification 	 Temperature: 85± 2°C Humidity: 90% ~ 95% RH Duration: 1000±48hrs Recovery: 1-2hrs
Thermal shock (Temperature Cycle)	after test	 One cycle/step 1 : 125 ± 5°C for 30 min step 2 : - 40 ± 5°C for 30 min No of cycles : 100 Recovery:1-2 hrs
Low Temperature Resistance	 No apparent damage Fulfill the electrical specification after test 	 Temperature: -40°± 5 °C Duration: 500 ±24hrs Recovery: 1-2hrs



Soldering Conditions

*****Typical Soldering Profile for Lead-free Process

Reflow Soldering :



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