RF Filter 100 KHz to 5.8 GHz SMT package

The content of this specification may change without notification 09/18/08

RoHS COMPLIANT 2002/95/EC

Wide Band
RF Eliminate Filter
KHLC-04d

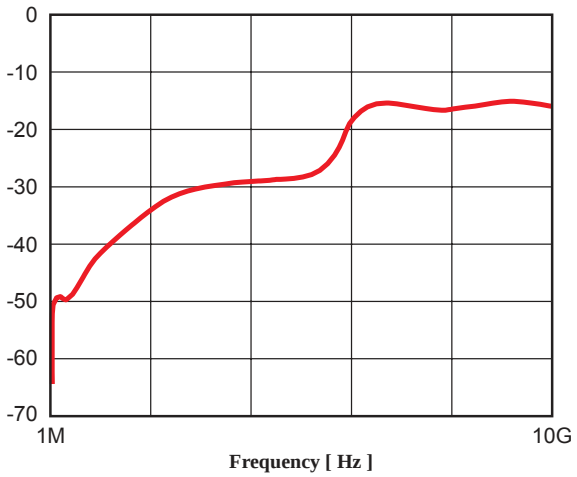
Feature

- **SMT Package in Thin Thickness**
- **Broad Bandwidth: 100 kHz to 5.8 GHz (-20 dB)**
- **Comply with Large Current (1.5 A)**

Getting along with high speed orientation of commercial electronic apparatus, high harmonic wave (noise) delivered to the DC power supply extends the frequency from several GHz to several GHz times by ten. Under such a high frequency orientation at rapid constant progress, the circuit method like using a bypass capacitor cannot remove actually high harmonic wave which is transmitted to the power supplies.

In order to perform high speed transmission of a digital signal, the power filter **KHLC-04d** should be put in series to the bias (power supply terminal) of the electric device (ICs and etc) and needs to cut high harmonic wave signal which is leaked in the power supply line. **KHLC-04d** has an usable frequency range of 100 kHz to 5.8 GHz (-20 dB), which has RF preventive band characteristics in the wide range and is very ideal for mounting position electrically as this power filter in SMT package can be mounted near the power supply terminals of ICs and etc.

Isolation vs Frequency



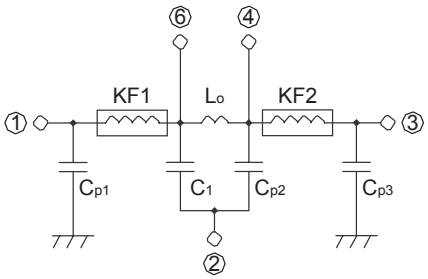
Absolute Maximum Rating

Parameter	Value (max.)	Unit
Rated Current	1,500	mA
Rated Voltage	25	V
Soldering Temperature	+265 (10 sec)	C
Operating Temperature	−40 ~ +85	C
Storage Temperature	−65 ~ +150	C

Electrical Specifications

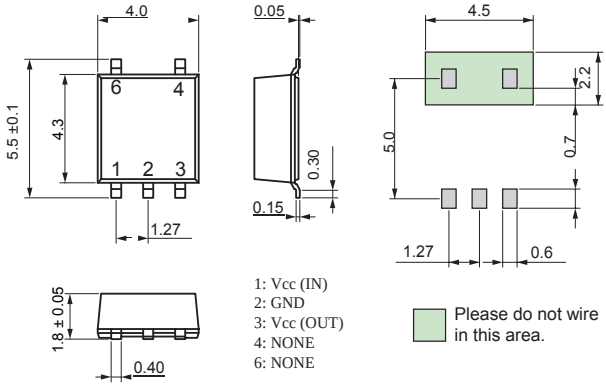
Parameter	Value	Condition
Band Width	100 kHz ~ 5.8 GHz (Typ.)	−20 dB
	400 kHz ~ 3.0 GHz (Typ.)	−30 dB
DC Resistance	0.13 Ω max.	−

Schematics



Dimensions

UNIT : mm



Specifications of products are subject to change without notice.

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