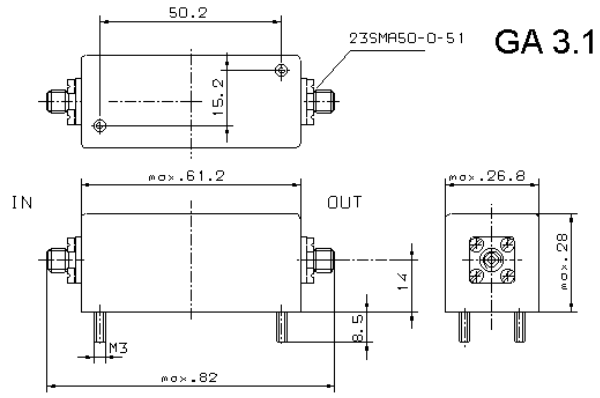
VECTRON INTERNATIONAL
A DOVER COMPANY

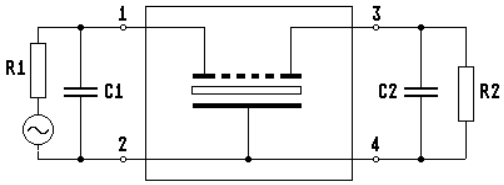
30 August 2010

Specification for LC band pass filter: **L C 1 1 3 . 0 - 1 0 . 0 / 0 6**

1. General

1.1. Package:





1.2.	Type name:	LC 113.0-10.0/06
1.3.	Number of poles:	6
1.4.	Operating temperature range:	-40°C to +85°C
1.5.	Storage temperature range:	-55°C to +125°C

2. Electric values

2.1.	Nominal centre frequency fo:	113.0 MHz

2.2. **Pass band**

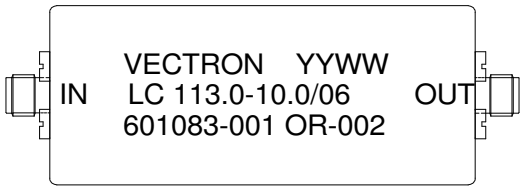
2.2.1.	Centre frequency fc at +25°C:	113.0 MHz ± 500 kHz
2.2.2.	Bandwidth between 3 dB - frequencies:	> fc ± 5.0 MHz
2.2.3.	Ripple in pass band (peak to peak):	< 1.0 dB
2.2.4.	Insertion loss: (measured on smallest attenuation in pass band)	≤ 5.0 dB

2.3. **Stop band**

2.3.1.	fc ± 7.0 MHz	≥ 10 dB
2.3.2.	fc ± 8.0 MHz	≥ 20 dB
2.3.3.	fc ± 9.5 MHz	≥ 30 dB
2.3.4.	fc ± 11.0 MHz	≥ 40 dB
2.3.5.	Alternate attenuation	≥ 80 dB

2.4.	Terminating impedance (input and output):	50 Ω // 0 pF
2.5.	3-rd order intermodulation products measured at 108.1 MHz:	
	test tones 107.7 MHz / 107.3 MHz, power level -24 dBm:	-110 dBm (86 dB down from test tones)
	test tones 97.9 MHz / 103.0 MHz, power level -1.9 dBm:	-110 dBm (86 dB down from test tones)
	test tones 98.0 MHz / 87.9 MHz, power level +4.1 dBm:	-110 dBm (86 dB down from test tones)
2.6.	Maximum input power level:	+25dBm / +30dBm (working / non-damaged)

3. Marking:



4. Environment conditions: Corresponding to Vectron MIL Standard 202

Edited by: date: _____ name: _____