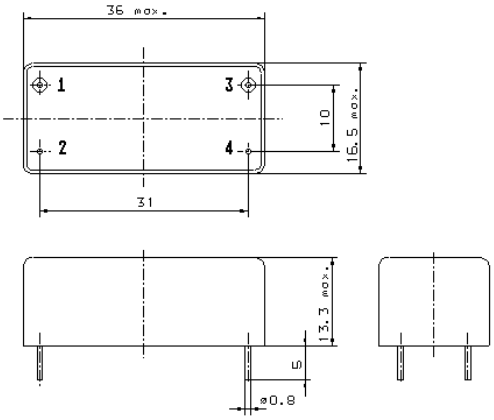
VECTRON INTERNATIONAL
A DOVER COMPANY

22 March 2012

Specification for crystal filter: **Q F 1 2 4 . 8 - 7 0 0 0 / 0 2**

1. General

1.1. Package:



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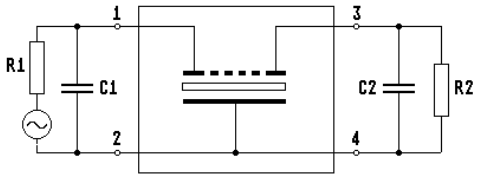

Filters are Pb-free and 2002/95 / EC RoHS compliant

1.2.	Type name:	QF 124.8-7000/02
1.3.	Number of poles:	4
1.4.	Operating temperature range:	-40°C to +85°C
1.5.	Storage temperature range:	-45°C to +85°C

2. Electric values

2.1.	Nominal centre frequency (fo):	124.8 MHz
2.2	Center frequency at +25°C (fc):	124.8 MHz ± 2.0 kHz
2.3.	**Pass band**	
2.3.1.	Bandwidth between 3 dB – frequencies:	> fc ± 35 kHz
2.3.2.	Ripple in pass band peak to peak:	< 0.5 dB
2.3.3.	Insertion loss:	< 4.0 dB
	(measured on smallest attenuation in pass band)	
2.3.4.	Group delay absolute at fc:	10 µs ± 2 µs
2.3.5.	Group delay distortion	< 2.5 µs at fc ± 35 kHz
2.4.	**Stop band**	
2.4.1.	fc ± 60 kHz	> 6 dB
2.4.2.	fc ± 120 kHz	> 30 dB
2.4.3.	fc +150 kHz / -170 kHz	> 40 dB
2.4.4.	fc ± 350 kHz	> 60 dB
2.4.5.	fc -768 kHz	> 70 dB
2.4.6.	Ultimate attenuation	> 60 dB
2.4.7.	Spurious responses	> 30 dB
	fc +150kHz…...+5.0 MHz:	> 30 dB
	40 MHz……....90 MHz:	> 10 dB
2.5.	Terminating impedance R//C (input and output):	50 Ω // 0 pF
2.6.	Maximum input power level working :	-10 dBm
2.6.1.	Maximum input power level non damaged:	+8 dBm
3.	Marking:	manufacturer, date code QF 124.8-7000/02
4.	Environment conditions:	according to Vectron CF001

Edited by: date: _____ name: _____