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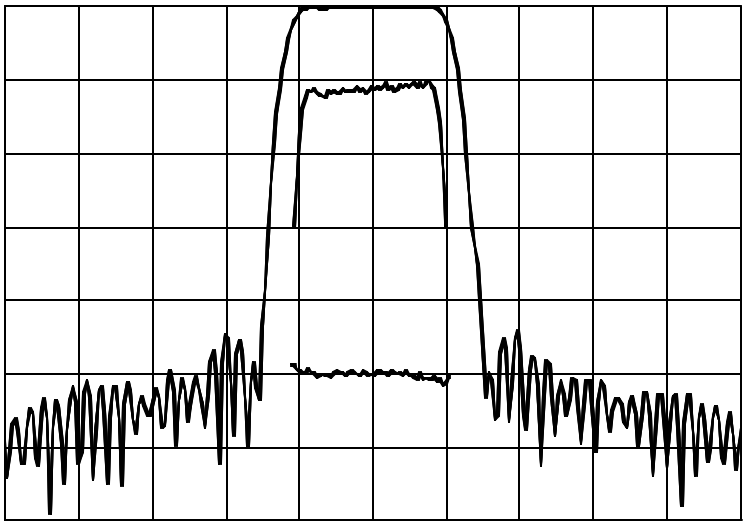
Micro Networks
An Integrated Circuit Systems Company

326.4 MHz Filter for UMTS Applications
Part Number SF0326CD21924S

Micro Networks, 324 Clark Street, Worcester, MA 01606, USA tel: 508-852-5400, fax:508-852-8456, www.icst.com

TYPICAL PERFORMANCE



Horizontal: 8 MHz/div

Vertical (from top): Magnitude 10 dB/div
Magnitude 1 dB/div
Group Delay 50 nsec/div

SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) [1]		326.4		MHz
Insertion Loss		15.5	18.5	dB
2 dB Bandwidth	15.0	16.7		MHz
40 dB Bandwidth		23.6	26	MHz
Rejection (10 MHz to 50 MHz)	30			dB
Rejection (50 MHz to F_C-50 MHz)	47	55		dB
Rejection (F_C-50 MHz to F_C-13 MHz)	40	42		dB
Rejection (F_C+13 MHz to F_C+50 MHz)	40	44		dB
Rejection (F_C+50 MHz to 450 MHz)	47	59		dB
Passband Amplitude Ripple [2]		0.3	0.7	dB p-p
Passband Group Delay Ripple [3]		30	50	ns p-p
Source and Load Impedance		50		Ω
Operating Temperature Range	-10	23	+80	° C

Notes: 1. Fixed reference. All specified bandwidths are centered at this frequency.
2. Over Fc ± 2.5 MHz.
3. Over Fc ± 7.5 MHz.

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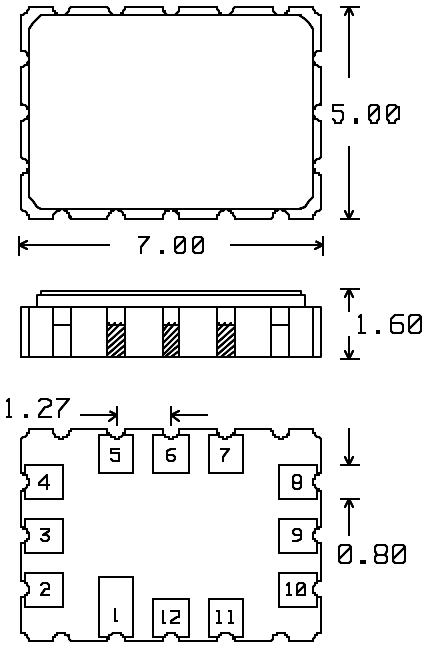
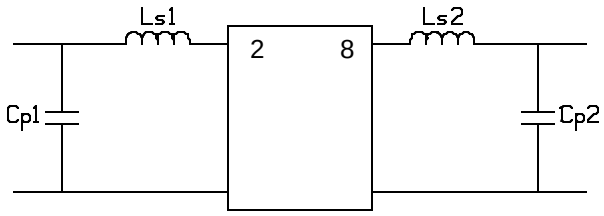
PACKAGE OUTLINE



Units: mm

Pin Configuration:
Input: 2
Output: 8
Ground: 1,3,4,5,6,7,9,10,11,12

MATCHING CIRCUIT



Typical component values:	Ls1 = 22 nH	Ls2 = 18 nH
(minimum inductor Q = 45)	Cp1 =22 pF	Cp2 =22 pF

Notes - Requires 2% matching components.
- Component values may change depending on board layout.
- All pins other than 2 and 8 are connected together internally to the package

ISO 9001
Registered