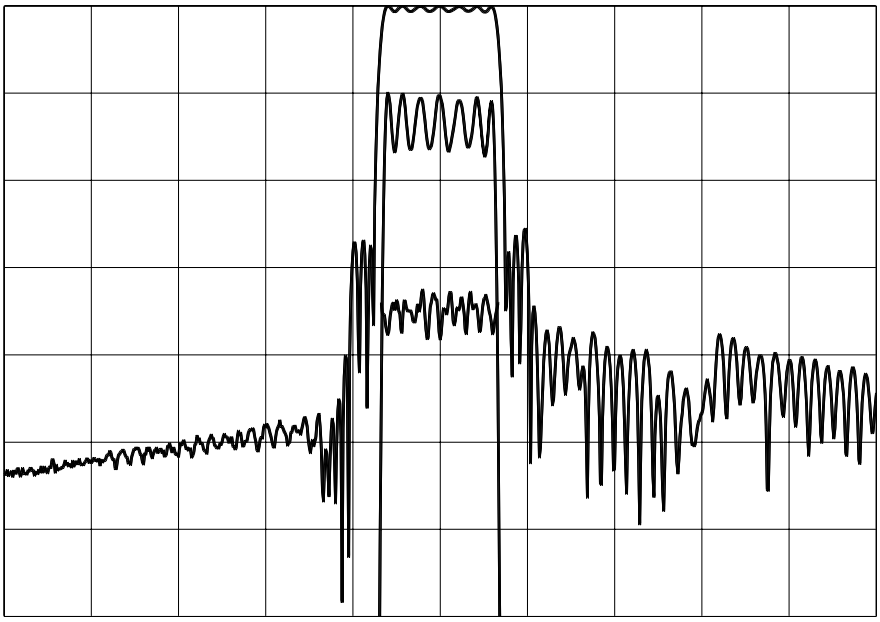
Micro Networks
An Integrated Circuit Systems Company

70 MHz Filter
2.5 MHz Bandwidth
Part Number SF0070BA03027T

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

TYPICAL PERFORMANCE



Horizontal: 2.0 MHz/div Vertical (from top): Magnitude 10 dB/div
Magnitude 1 dB/div
Group Delay 100 ns/div

SPECIFICATION

Parameter	Min.	Typ.	Max.	Units.
Center Frequency Fc (nominal)		70.0		MHz
Insertion Loss [1]		26	27	dB
Lower 1 dB point			68.75	MHz
Upper 1 dB point	71.25			MHz
Lower 20 dB point	68.50			MHz
Upper 20 dB point			71.50	MHz
Amplitude Ripple [2]		0.7	1	dB p-p
Phase Ripple [2]		3	6	deg p-p
Group Delay Ripple [2]		50	100	ns p-p
Rejection (10-68.5 & 71.5-200) MHz	20	30		dB
Absolute Delay		3.35		us
Triple Travel Attenuation [3]	50			dB
Operating Temperature Range	0		50	° C
Input Power Level			15	dBM
Substrate Material		Quartz		

Notes:
1: Mean value over Fc ± 1.25 MHz
2: Measured over Fc ± 1.25 MHz
3: With specified matching network

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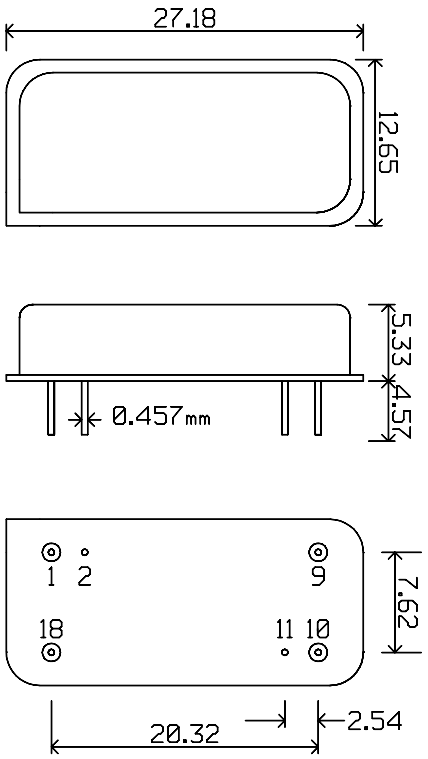
PACKAGE OUTLINE

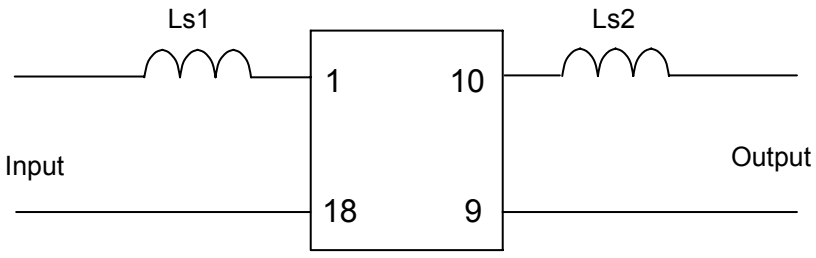


Units: mm

Pin Configuration:

Input:	1
Input Return:	18
Output:	10
Output Return:	9
Ground:	2, 11

MATCHING CIRCUIT



Component values:

Ls1 = 280 nH Ls2 = 750 nH (Minimum Q = 45)

Notes

1. Recommend use of 5% tolerance components.
2. Optimum values depend on board layout. Values intended as guide only.

ISO 9001 Registered