

# 70 MHz Bandpass SAW Filter

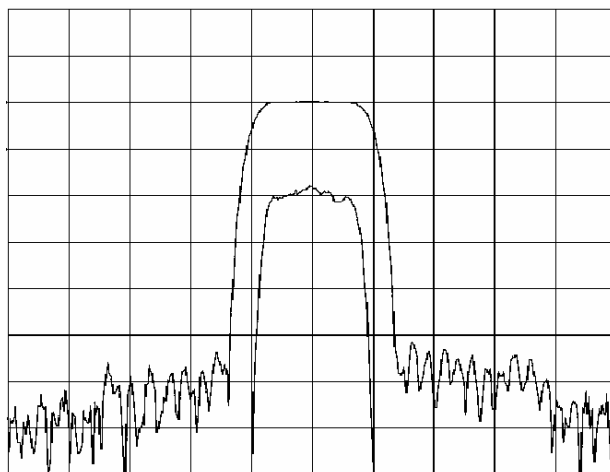
## BP60320

### 3.5 MHz Bandwidth

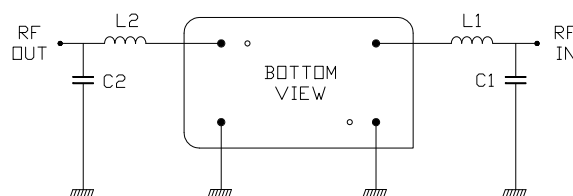
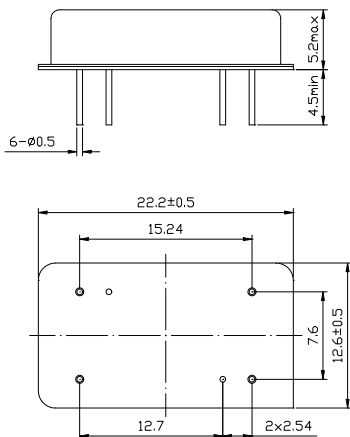
*Complies with Directive 2002/95/EC (RoHS Compliant)*

Specifications					
Parameter	Sym	Minimum	Typical	Maximum	Unit
Center Frequency at 25°C	$f_c$	69.9	70.0	70.1	MHz
Insertion Loss at $f_c$	$IL$	-	26.0	27.5	dB
1 dB Bandwidth	$BW_1$	3.0	3.3	-	MHz
3 dB Bandwidth	$BW_3$	3.5	3.7	-	MHz
40dB Bandwidth	$BW_{40}$	-	5.2	5.6	MHz
Passband Variation	-	-	0.5	1.0	dB
Phase Linearity	-	-	4.0	8.0	Deg
Group Delay Variation	-	-	40	100	nsec
Absolute Delay	-	-	2.24	-	μsec
Ultimate Rejection	-	50	60	-	dB
Substrate Material	-	-	Quartz	-	-
Ambient Temperature	$T_a$	-	25	-	°C
Operatable Temperature Range	$T_o$	-40	-	85	°C

### Typical Performance



Package Outline
Matching Configuration



$L1 = 560 + 47 = 607 \text{ nH}$        $C1 = 51 \text{ pF}$   
 $L2 = 560 + 82 = 642 \text{ nH}$        $C2 = 51 \text{ pF}$   
 Nominal Source/Load Impedance : 50 Ω

*Note: Component values may change depending on board layout.*