

CERAMIC SURFACE-MOUNT SAW FILTER AFS916.5E

FEATURES:

- SAW Filter 916.5 MHz.typ.
- Low Loss, Compact.
- SMD makes reflow soldering possible.
- Gold plated terminals.

COMMON APPLICATIONS:

- Wireless car alarm, Garage door opener. (RKE)
- Mobile communications systems

ABLSOLUTE MAXIMUM RATINGS:

DC voltage	12Vdc
Operating temperature	-40°C to +85°C
Maximum power dissipation	10dBm

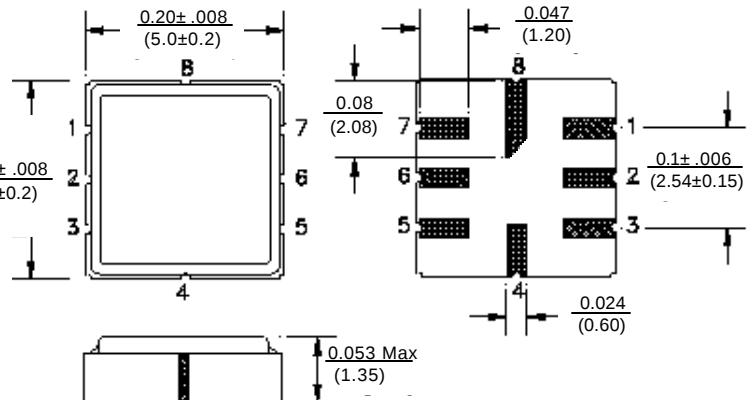
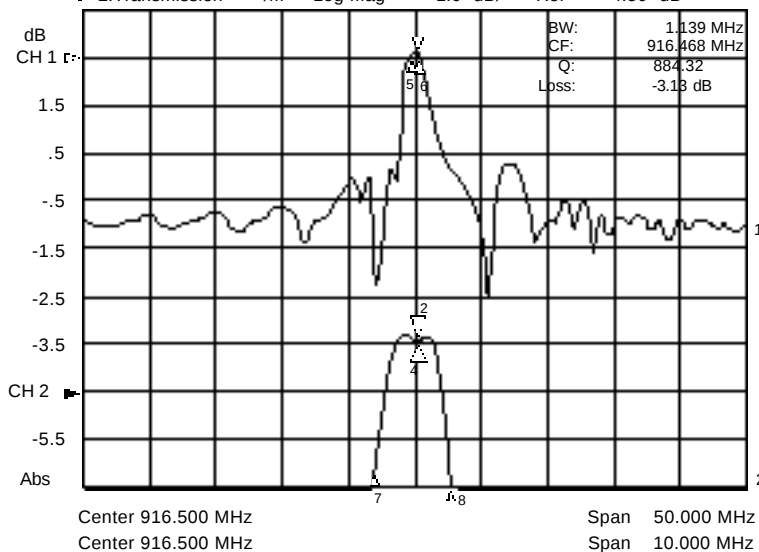
STANDARD SPECIFICATIONS

CHARACTERISTICS	UNIT	min.	typ.	max.
Center frequency F_c	MHz	-	916.5	-
Insertion loss IL	dB	-	4.0	5.5
3dB Passband BW3	kHz	-	1200	-
Stopband attenuation	at $F_c-21.4\text{MHz}$	dB	-	35
	at $F_c-10.7\text{MHz}$	dB	-	35
	Ultimate	-	50	-
Turn-over temperature T_o	°C	25	40	55
Temperature coefficient T_c	ppm/C ²	-	0.032	-
Aging absolute first year [A]	ppm	-	-	10

Packaging option: -T for tape and reel, see appendix H.

Reflow profile, see appendix E. Reliability specifications, see SAW application notes.

1: Transmission /M Log Mag 10.0 dB/ Ref -4.50 dB
2: Transmission /M Log Mag 1.0 dB/ Ref -4.50 dB

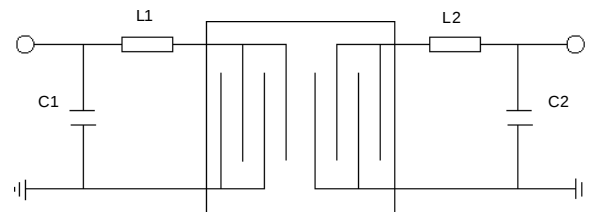


Dimensions: Inches (mm)

Pin No.	Function
1	Input GND
2	Input
5	Output GND
6	Output
3, 7	To be GNDed
4, 8	Case GND

Maching circuit to 50 W:

$C1=C2=4-8\text{pF}^*$, $L1=L2=80\text{H}$
 $L=2$ turns of 0.5mm insulated copper, 2.5ID(nH)



Marking:

AFS
916.5E

1: Mkr Δ (MHz)	dB	2: Mkr Δ (MHz)	dB
1> 0.00	0.00	2> 0.00	0.00
2: 0.05	-0.05		
3: -0.06	-0.03		
4: -0.03	-0.02	4: -0.08	-0.10
5: -0.64	-3.00		
6: 0.52	-3.00		
7: -0.60	-2.61	7: -0.65	-2.66
8: 0.54	-3.35	8: 0.49	-3.54

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED

NOTE: All specifications and markings subject to change without notice

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