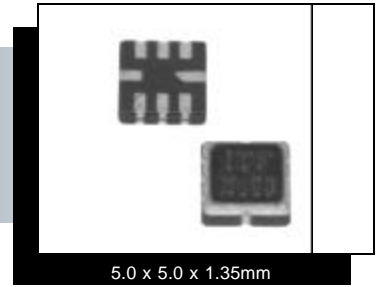


**CERAMIC SURFACE-MOUNT
SAW FILTER
AFS916.5E**



5.0 x 5.0 x 1.35mm

FEATURES:

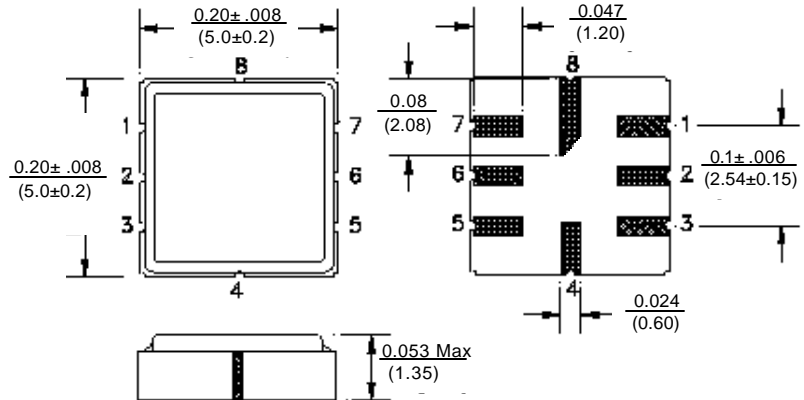
- SAW Filter 916.5 MHz.typ.
- Low Loss, Compact.
- SMD makes reflow soldering possible.
- Gold plated terminals.

COMMON APPLICATIONS:

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

ABLOLUTE MAXIMUM RATINGS:

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



STANDARD SPECIFICATIONS

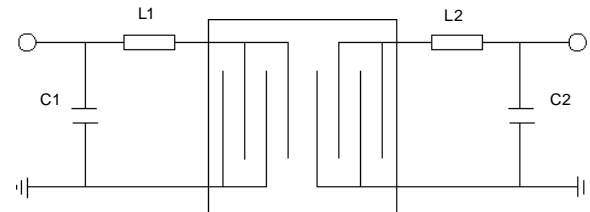
CHARACTERISTICS	UNIT	min.	typ.	max.
Center frequency Fc	MHz	-	916.5	-
Insertion loss IL	dB	-	4.0	5.5
3dB Passband BW3	kHz	-	1200	-
Stopband attenuation	at F _C -21.4MHz	dB	-	35
	at F _C -10.7MHz	dB	-	35
	Ultimate		-	50
Turn-over temperature To	°C	25	40	55
Temperature coefficient Tc	ppm/C ²	-	0.032	-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

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=4-8pF*, L1=L2=80H
L=2 turns of 0.5mm insulated copper, 2.5ID(nH)



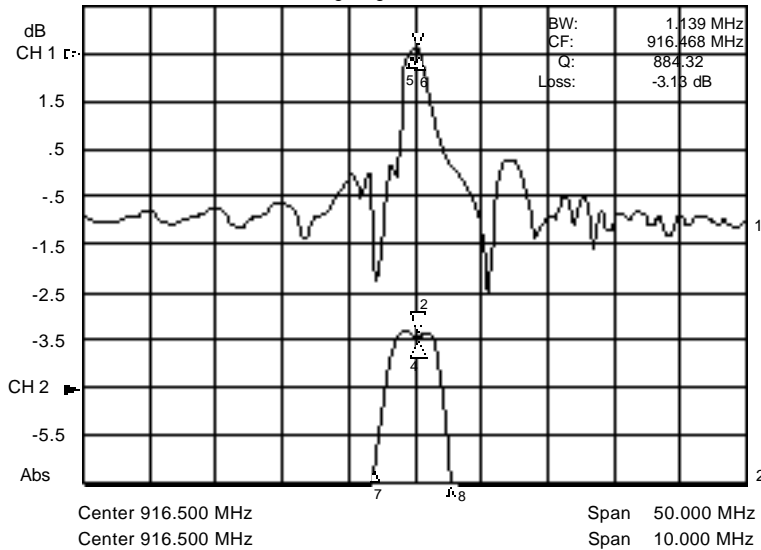
Marking:

AFS
916.5E

1: Mkr Δ (MHz)	dB	2: Mkr Δ (MHz)	dB		
1>	0.00	0.00			
2:	0.05	-0.05	2>	0.00	0.00
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

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



NOTE: All specifications and markings subject to change without notice

**ABRACON IS
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**29 Journey • Aliso Viejo, CA 92656 • USA
(949) 448-7070 • FAX: (949) 448-8484**

E-MAIL: abinfo@abracon.com • INTERNET ADDRESS: www.abracon.com

