

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

ABSOLUTE MAXIMUM RATINGS:

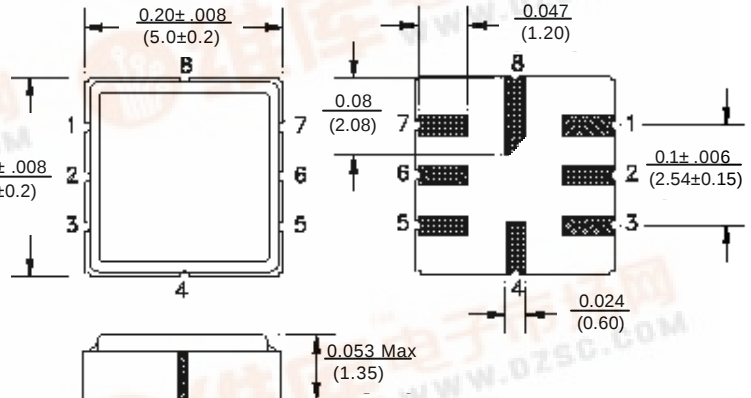
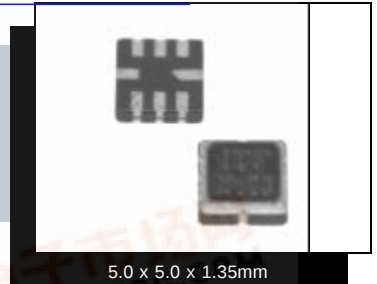
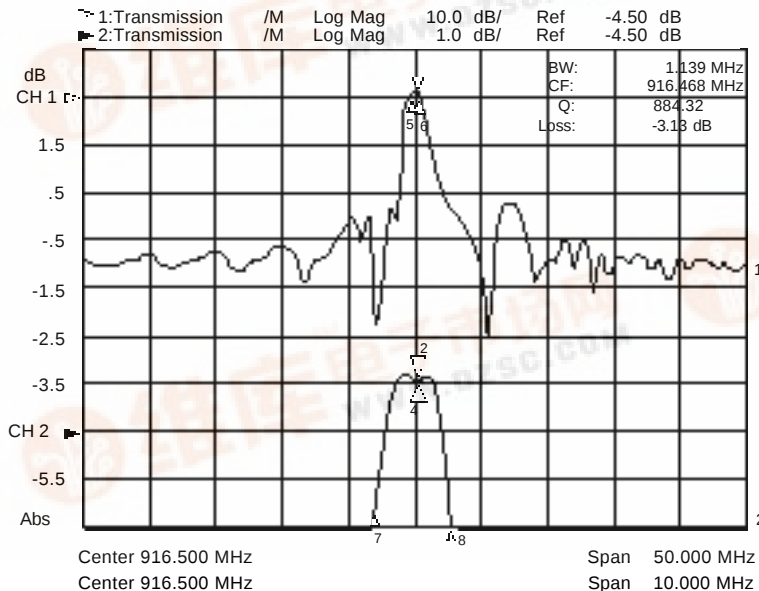
DC voltage	12Vdc
Operating temperature	-40°C to +85°C
Maximum power dissipation	10dBm

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

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

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

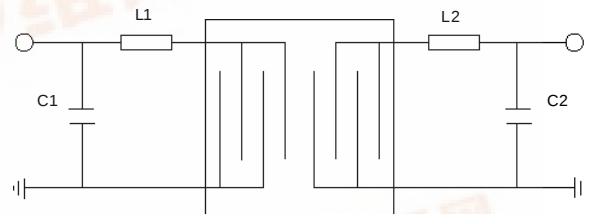


Dimensions: Inches (mm)

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	0.00
2:	0.05	-0.05	0.00
3:	-0.06	-0.03	
4:	-0.03	-0.02	-0.08
5:	-0.64	-3.00	
6:	0.52	-3.00	
7:	-0.60	-2.61	-0.65
8:	0.54	-3.35	0.49

NOTE: All specifications and markings subject to change without notice

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