

Europe under ETSI I-ETS 300 220.

Ideal Front-End Filter for European Wireless Receivers

The RF3446E is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter designed to provide front-end selectivity in 433.92 MHz receivers. Receiver designs using this filter include superhet with 10.7 MHz or 500 kHz IF, direct conversion and superregen. Typical applications of these receivers are wireless remote-control and security devices operating in

Low-Loss, Coupled-Resonator Quartz Design

Simple External Impedance Matching

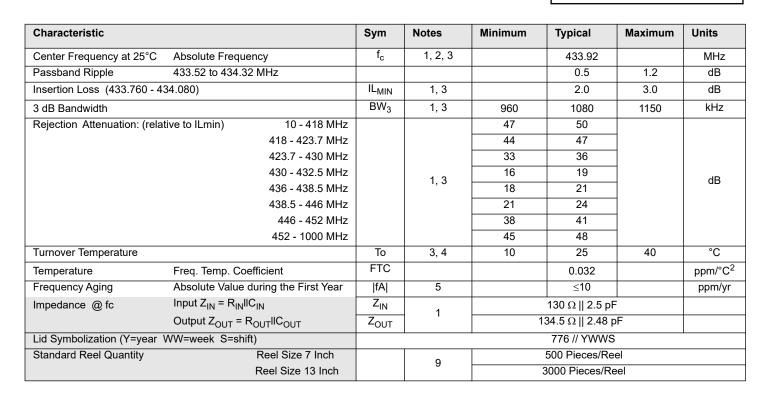


- AEC-Q200 RoHS Compliance This component is compliant with RoHS directive. This component was always RoHS compliant from the first date of manufacture.

 - 433.92 MHz **SAW Filter**



- **RF3446E**

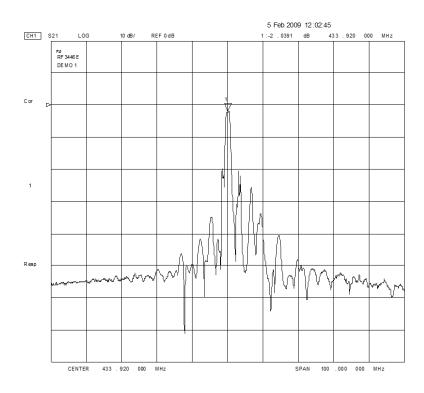


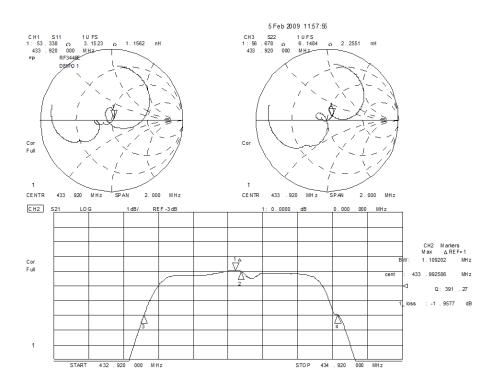


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

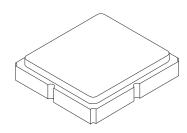
- Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture which is connected to a 50 Ω test system with VSWR ≤ 1.2:1. The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, fc. Note that insertion loss and bandwidth and passband shape are dependent on the impedance matching component values and quality.
- The frequency $f_{\text{\tiny C}}$ is defined as the midpoint between the 3dB frequencies. 2
- Where noted specifications apply over the entire specified operating temperature range of -40°C to +90°C.
- The turnover temperature, T_O, is the temperature of maximum (or turnover) frequency, f_o. The nominal frequency at any case temperature, T_c, may be calculated from: $f = f_0 [1 - FTC (T_0 - T_c)^2].$
- Frequency aging is the change in fc with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically, 5. aging is greatest the first year after manufacture, decreasing significantly in subsequent years.
- The design, manufacturing process, and specifications of this device are subject to change.
- One or more of the following U.S. Patents apply: 4,54,488, 4,616,197, and others pending.
- All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.

Discontinued

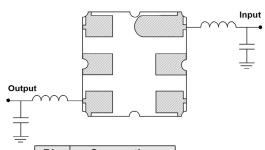




DISCONTINU.	ΔC	
Rating	cu	Units
Input Power Level	10	dBm
DC Voltage	12	VDC
Storage Temperature	-55 to +125	°C
Operable Temperature Range	-40 to +105	°C
Soldering Temperature (10 seconds/5 cycles Max)	260	°C

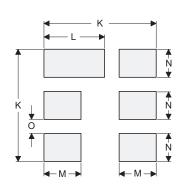


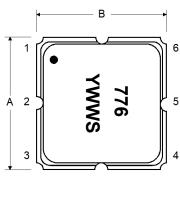
Electrical Connections



Pin	Connection
1	Input
2	Input Return
3	Ground
4	Output
5	Output Return
6	Ground

PCB Footprint Top View







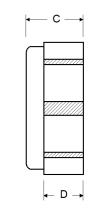
Case and PCB Footprint Dimensions

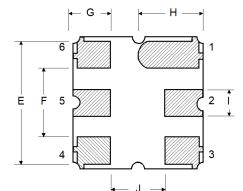
Dimension	mm		Inches			
Dillielision	Min	Nom	Max	Min	Nom	Max
Α	2.87	3.00	3.13	0.113	0.118	0.123
В	2.87	3.00	3.13	0.113	0.118	0.123
С	1.12	1.25	1.38	0.044	0.049	0.054
D	0.77	0.90	1.03	0.030	0.035	0.040
E	2.67	2.80	2.93	0.105	0.110	0.115
F	1.47	1.60	1.73	0.058	0.063	0.068
G	0.72	0.85	0.98	0.028	0.033	0.038
Н	1.37	1.50	1.63	0.054	0.059	0.064
I	0.47	0.60	0.73	0.019	0.024	0.029
J	1.17	1.30	1.43	0.046	0.051	0.056
K		3.20			0.126	
L		1.70			0.067	
М		1.05			0.041	
N		0.81			0.032	
0		0.38			0.015	

Case Materials

Materials		
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel	
Lid Plating	2.0 to 3.0 µm Nickel	
Body	Al ₂ O ₃ Ceramic	
Pb Free		

TOP VIEW

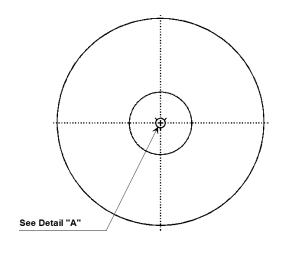


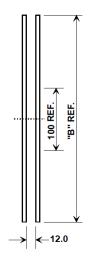


BOTTOM VIEW

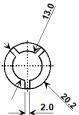
Discontinued

Tape and Reel Specifications



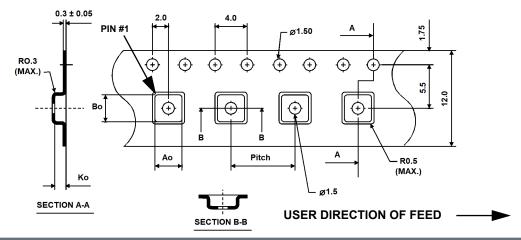


"B"		Quantity Per Reel	
Inches	millimeters		
7	178	500	
13	330	3000	



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions		
Ao	3.35 mm	
Во	3.35 mm	
Ко	1.40 mm	
Pitch	8.0 mm	
W	12.0 mm	



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Signal Conditioning category:

Click to view products by Murata manufacturer:

Other Similar products are found below:

MAPDCC0001 MAPDCC0004 PD0409J5050S2HF 880157 HHS-109-PIN DC1417J5005AHF AFS14A30-2185.00-T3 AFS14A35-1591.50-T3 DS-323-PIN B39321R801H210 1A0220-3 JP510S LFB212G45SG8C341 LFB322G45SN1A504 LFL182G45TC3B746 SF2159E 30057 FM-104-PIN CER0813B MAPDCC0005 3A325 40287 41180 ATB3225-75032NCT BD0810N50100AHF BD2425J50200AHF C5060J5003AHF JHS-115-PIN JP503AS DC0710J5005AHF DC2327J5005AHF DC3338J5005AHF 43020 LFB2H2G60BB1C106 LFL15869MTC1B787 X3C19F1-20S XC3500P-20S 10013-20 SF2194E CDBLB455KCAX39-B0 TGL2208-SM, EVAL RF1353C 1E1305-3 1F1304-3S 1G1304-30 B0922J7575AHF 2020-6622-20 TP-102-PIN TP-103-PIN BD1222J50200AHF