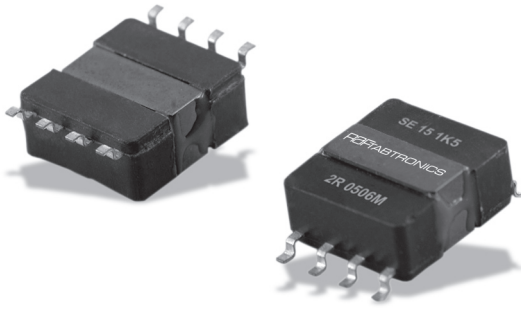


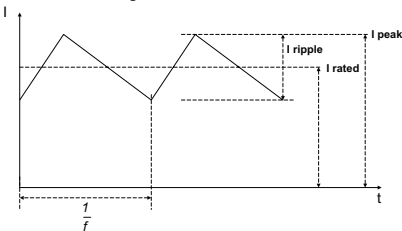
SMD Power Inductors - SESI 15WR High Reliability Applications



- Energy storage, smoothing, filtering
- Applied standards: MIL-PRF-27 Class V Grade 5 capable ECSS-Q-70-02, DO-160
- ESCC 3201/009 versions upon request
- Materials meet UL94-V0 rating
- Suited for IR and vapor reflow soldering
- Frequency range up to 1 MHz
- Operating ambient temperature range: -55 °C to +125 °C
- Weight: 5 grams typical
- Shielded version upon request

Notes

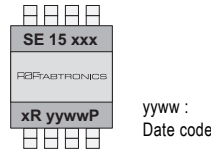
1. Inductance at 0.25 V, 100 kHz
2. I rated (permanent DC) without heatsink ; mounted via heatsink I=I rated x1.4
3. Typical inductance value at recommended rated current
4. I peak max = maximum peak value of current at +125 °C; L value not guaranteed
5. 40% admissible I ripple over I rated at f=200 kHz
6. Isolation voltage 500 Vdc
1 min electrification 100 GΩ minimum between winding and magnetic core



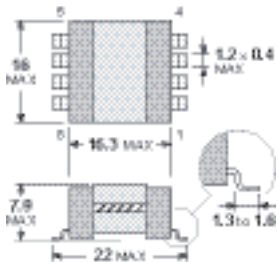
Connections



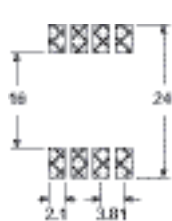
Marking



Dimensions (mm, top view)

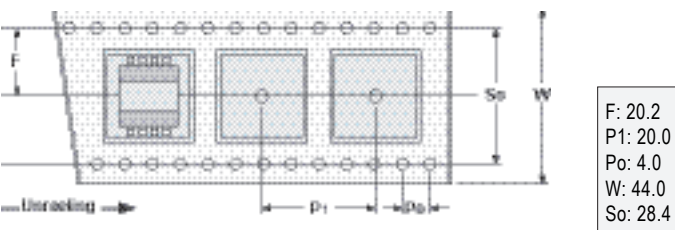


PCB Layout (suggested)



Packaging (mm, top view)

Tape and Reel:
400 pieces per reel of diameter 330 mm



F: 20.2
P1: 20.0
P2: 4.0
W: 44.0
So: 28.4

Electrical Data (25°C)

ID Code	L ¹ no load μH	I ² rated A	L ³ at rated I μH	I ⁴ peak max A	R _{dc} at 25°C mΩ Max	L Tol. ±%
SESI 15 1K5 2WR	1.5	14	0.9	19	5.0	30
SESI 15 1K8 1WR	1.8	10	1.05	14	5.0	
SESI 15 2K7 1WR	2.7	8.2	1.9	11.5	6.5	
SESI 15 4K9 1WR	4.9	6.0	3.4	8.5	11	20
SESI 15 6K4 1WR	6.4	5.3	4.5	7.5	12	
SESI 15 8K0 1WR	8.0	4.8	5.6	6.5	16	
SESI 15 12K 1WR	12	4.0	8.4	5.5	23	
SESI 15 16K 1WR	16	3.4	11.2	4.5	27	
SESI 15 18K 1WR	18	3.1	12.6	4.2	29	10
SESI 15 21K 1WR	21	2.9	14.7	4.0	36	
SESI 15 27K 1WR	27	2.6	18.9	3.5	44	
SESI 15 29K 2WR	30	2.6	20	3.5	72	
SESI 15 33K 1WR	33	2.3	23	3.2	59	
SESI 15 48K 1WR	48	1.9	33	2.7	72	
SESI 15 56K 1WR	56	1.8	39	2.5	82	
SESI 15 68K 1WR	68	1.6	47	2.2	110	
SESI 15 82K 1WR	82	1.5	57	2.1	120	
SESI 15 M10 1WR	100	1.35	70	1.9	155	
SESI 15 M12 1WR	120	1.2	84	1.7	180	
SESI 15 M15 1WR	150	1.1	105	1.5	230	
SESI 15 M22 1WR	220	0.9	154	1.3	355	
SESI 15 M33 1WR	330	0.74	231	1.0	630	
SESI 15 1M0 1WR	1000	0.38	800	0.5	2127.5	
SESI 15 2M3 1WR	2290	0.28	1900	0.36	4400	

To Order

SESI	15	###	-	W	R
SMD Energy Storage Inductor	Size	Value code 4K9 = 4,9 μH M10 = 100 μH 1M0 = 1000 μH	Version	GW Terminals	High reliability

RAFTABTRONICS
Technology to the global power

Tel: 1-888-876-6424
Fax: 1-585-243-3831
sesi@raftabtronics.com
www.raftabtronics.com

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright 2010. RAF Tabtronics LLC. All rights reserved.