

SMD INDUCTOR DR353-1 SERIES

Features

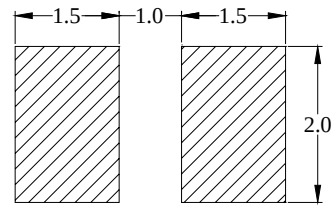
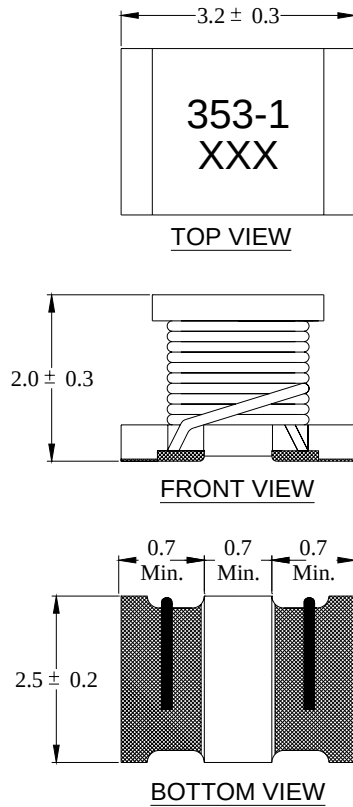
- Low Profile Surface Mount Design
- Flat Top for Pick and Place
- Inductance Range from 0.1 μ H to 560.0 μ H
- Operating Temp. -25°C to + 85°C
- Tinned Leads with Leaded Solder is Available (note 6)



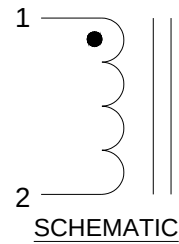
ELECTRICAL SPECIFICATIONS AT 25°C

Part No.	Inductance (μ H)		DCR (Ω) Max.	Q Min.		I _{rated} (mA) Max.	SRF (MHz) Min.
DR353-1-101	0.10 $\pm$ 20%	@1MHz	0.25	20	@25.2 MHz	700	200
DR353-1-181	0.18 $\pm$ 20%	@1MHz	0.25	20	@25.2 MHz	650	200
DR353-1-271	0.27 $\pm$ 20%	@1MHz	0.25	25	@25.2 MHz	600	200
DR353-1-391	0.39 $\pm$ 20%	@1MHz	0.25	25	@25.2 MHz	530	200
DR353-1-561	0.56 $\pm$ 20%	@1MHz	0.25	30	@25.2 MHz	530	160
DR353-1-681	0.68 $\pm$ 20%	@1MHz	0.25	30	@25.2 MHz	470	160
DR353-1-821	0.82 $\pm$ 20%	@1MHz	0.25	30	@25.2 MHz	450	120
DR353-1-102	1.0 $\pm$ 20%	@1MHz	0.50	20	@1MHz	445	100
DR353-1-122	1.2 $\pm$ 20%	@1MHz	0.60	20	@1MHz	425	100
DR353-1-152	1.5 $\pm$ 20%	@1MHz	0.60	20	@1MHz	400	75
DR353-1-182	1.8 $\pm$ 20%	@1MHz	0.70	20	@1MHz	390	60
DR353-1-222	2.2 $\pm$ 20%	@1MHz	0.80	20	@1MHz	370	50
DR353-1-272	2.7 $\pm$ 20%	@1MHz	0.90	20	@1MHz	320	43
DR353-1-332	3.3 $\pm$ 20%	@1MHz	1.0	20	@1MHz	300	38
DR353-1-392	3.9 $\pm$ 20%	@1MHz	1.1	20	@1MHz	290	35
DR353-1-472	4.7 $\pm$ 20%	@1MHz	1.2	20	@1MHz	270	31
DR353-1-562	5.6 $\pm$ 20%	@1MHz	1.3	20	@1MHz	250	28
DR353-1-682	6.8 $\pm$ 20%	@1MHz	1.5	20	@1MHz	240	25
DR353-1-822	8.2 $\pm$ 20%	@1MHz	1.6	20	@1MHz	225	23
DR353-1-103	10 $\pm$ 10%	@1MHz	1.8	35	@1MHz	190	20
DR353-1-123	12 $\pm$ 10%	@1MHz	2.0	35	@1MHz	180	18
DR353-1-153	15 $\pm$ 10%	@1MHz	2.2	35	@1MHz	170	16
DR353-1-183	18 $\pm$ 10%	@1MHz	2.5	35	@1MHz	165	15
DR353-1-223	22 $\pm$ 10%	@1MHz	2.8	35	@1MHz	150	14
DR353-1-273	27 $\pm$ 10%	@1MHz	3.1	35	@1MHz	125	13
DR353-1-333	33 $\pm$ 10%	@1MHz	3.5	40	@1MHz	115	12
DR353-1-393	39 $\pm$ 10%	@1MHz	3.9	40	@1MHz	110	11
DR353-1-473	47 $\pm$ 10%	@1MHz	4.3	40	@1MHz	100	11
DR353-1-563	56 $\pm$ 10%	@1MHz	4.9	40	@1MHz	85	10
DR353-1-683	68 $\pm$ 10%	@1MHz	5.5	40	@1MHz	80	9
DR353-1-823	82 $\pm$ 10%	@1MHz	6.2	40	@1MHz	70	8.5
DR353-1-104	100 $\pm$ 10%	@1MHz	7.0	40	@796kHz	80	8
DR353-1-124	120 $\pm$ 10%	@1MHz	8.0	40	@796kHz	75	7.5
DR353-1-154	150 $\pm$ 10%	@1MHz	9.3	40	@796kHz	70	7
DR353-1-184	180 $\pm$ 10%	@1MHz	10.2	40	@796kHz	65	6
DR353-1-224	220 $\pm$ 10%	@1MHz	11.8	40	@796kHz	65	5.5
DR353-1-274	270 $\pm$ 10%	@1MHz	12.5	40	@796kHz	65	5
DR353-1-334	330 $\pm$ 10%	@1MHz	13.0	40	@796kHz	65	5
DR353-1-394	390 $\pm$ 10%	@1MHz	22.0	50	@796kHz	50	5
DR353-1-474	470 $\pm$ 10%	@1kHz	25.0	50	@796kHz	45	5
DR353-1-564	560 $\pm$ 10%	@1kHz	28.0	50	@796kHz	40	5

MECHANICAL OUTLINES



PCB SOLDER PAD LAYOUT (REF.)



SCHEMATIC

Notes:

1. All dimensions are shown in millimeter "mm"
2. General tolerance ± 0.2 mm, unless other specified
3. I_{rated} for an approximate 40°C temperature rise
4. I_{rated} for an approximate 20% drop maximum of the initial value
5. Tape and reel quantity, 2000 pcs/reel
6. For non-RoHS parts replace DR prefix with 42- (e.g. DR353-1 becomes 42-353-1)
7. Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020C