

# COUPLED INDUCTORS, COMMON MODE CHOKES

## SDRH7342D SERIES



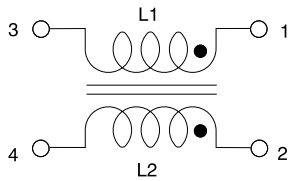
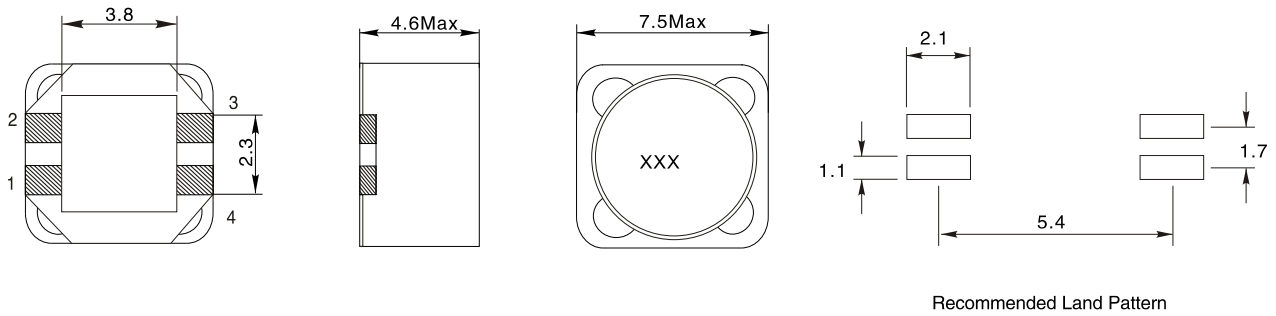
### FEATURES:

- Only 4.6 mm high and 7.5 mm square
- Ideal for use in both power line and signal line applications
- Common- and differential-mode filtering in a single device
- Up to 230 MHz differential mode cutoff frequency
- Can be used as coupled inductors for SEPIC applications
- RoHS compliant

### ELECTRICAL CHARACTERISTICS:

Partnumber	Common mode impedance Max (KΩ)	Cutoff frequency (MHz)	Inductance (μH)		DCR max (Ω)	Isolation (Vrms)	Irms (A)
			Min	Nom			
SDRH7342D-2R5M	3.07 @ 53 MHz	89	2.00	2.5	0.033	200	2.17
SDRH7342D-3R3M	3.86 @ 50 MHz	70	2.64	3.3	0.037	200	2.05
SDRH7342D-4R7M	4.93 @ 37 MHz	55	3.76	4.7	0.051	200	1.74
SDRH7342D-5R6M	5.96 @ 34 MHz	67	4.48	5.6	0.063	200	1.57
SDRH7342D-6R8M	7.85 @ 31 MHz	79	5.44	6.8	0.070	200	1.49
SDRH7342D-8R2M	9.09 @ 32 MHz	55	6.56	8.2	0.075	200	1.44
SDRH7342D-100M	9.15 @ 24 MHz	63	8.00	10	0.10	200	1.24
SDRH7342D-120M	11.85 @ 22 MHz	47	9.60	12	0.12	200	1.14
SDRH7342D-150M	14.43 @ 20 MHz	53	12.0	15	0.13	200	1.09
SDRH7342D-180M	18.24 @ 18 MHz	38	14.4	18	0.17	200	0.95
SDRH7342D-220M	18.37 @ 15 MHz	49	17.6	22	0.22	200	0.84
SDRH7342D-270M	25.63 @ 14 MHz	42	21.6	27	0.25	200	0.79
SDRH7342D-330M	26.26 @ 14 MHz	41	26.4	33	0.27	200	0.76
SDRH7342D-390M	35.44 @ 11 MHz	42	31.2	39	0.38	200	0.64
SDRH7342D-470M	34.38 @ 11 MHz	38	37.6	47	0.42	200	0.61
SDRH7342D-560M	41.03 @ 7.9 MHz	40	44.8	56	0.46	200	0.58
SDRH7342D-680M	70.55 @ 8.5 MHz	52	54.4	68	0.60	200	0.51
SDRH7342D-820M	84.57 @ 7.4 MHz	26	65.6	82	0.68	200	0.48
SDRH7342D-101M	89.05 @ 6.6 MHz	24	80.0	100	0.77	200	0.45
SDRH7342D-121M	101.4 @ 6.4 MHz	22	96.0	120	1.03	200	0.39
SDRH7342D-151M	121.2 @ 5.5 MHz	19	120	150	1.35	200	0.34
SDRH7342D-181M	141.5 @ 4.6 MHz	20	144	180	1.52	200	0.32
SDRH7342D-221M	133.0 @ 4.8 MHz	25	176	220	1.72	200	0.30
SDRH7342D-271M	103.7 @ 3.6 MHz	18	216	270	2.41	200	0.25
SDRH7342D-331M	131.7 @ 3.8 MHz	9.1	264	330	2.70	200	0.24
SDRH7342D-391M	145.9 @ 3.1 MHz	11	312	390	3.05	200	0.23
SDRH7342D-471M	187.2 @ 2.7 MHz	11	376	470	4.00	200	0.20
SDRH7342D-561M	204.4 @ 2.6 MHz	8.1	448	560	4.43	200	0.19
SDRH7342D-681M	210.0 @ 2.2 MHz	3.3	544	680	5.00	200	0.18
SDRH7342D-821M	251.8 @ 2.4 MHz	6.6	656	820	6.80	200	0.15
SDRH7342D-102M	276.1 @ 2.1 MHz	5.1	800	1000	7.80	200	0.14

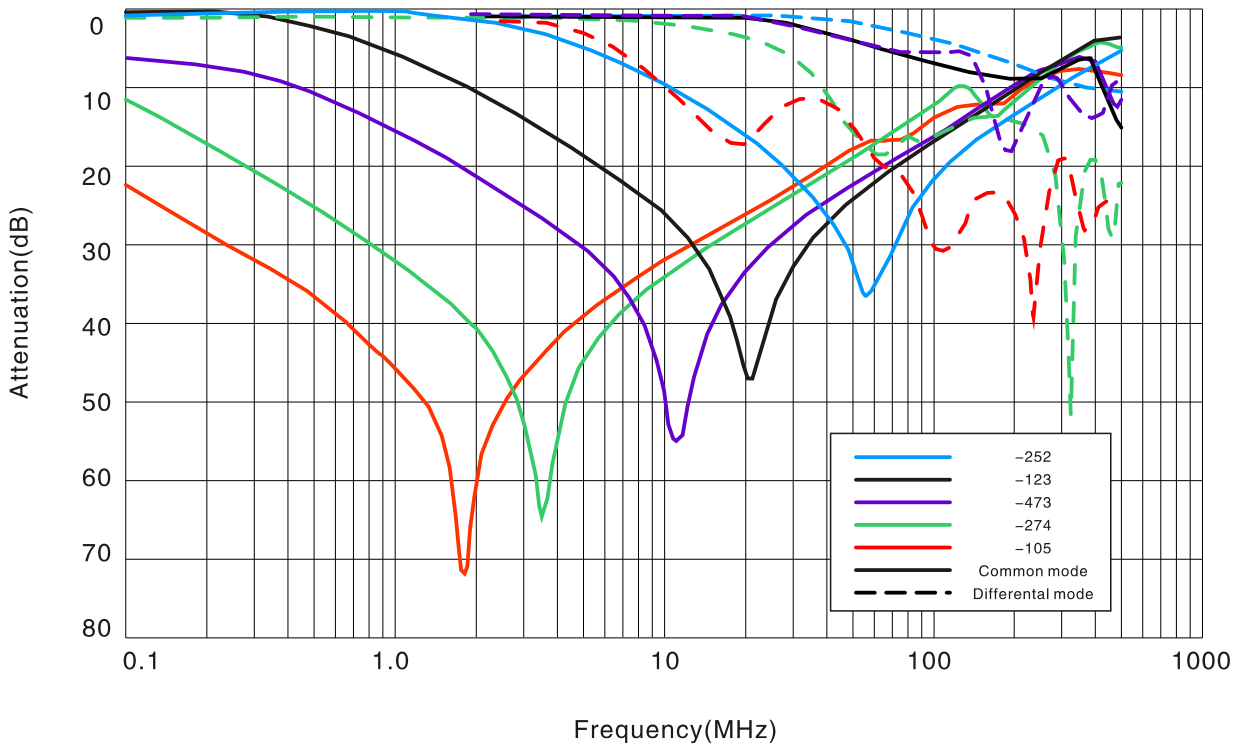
**PHYSICAL CHARACTERISTICS & WINDING:**



1. Frequency at which the differential mode attenuation equals -3dB
2. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent
3. DCR is for each winding.
4. Winding-to-winding isolation 500 Vrms, one minute
5. Current that causes a 40 °C temperature rise from 25 °C ambient. This information is for reference only and does not represent absolute maximum ratings
6. Electrical specifications at 25 °C
7. Ambient temperature -40 °C to +85 °C with Irms current. Maximum part temperature +125 °C (ambient + temp rise).
8. Storage temperature Component: -40 °C to +125 °C .
9. Tape and reel packaging: -40 °C to +80 °C

**PERFORMANCE CURVE:**

Typical Attenuation(Ref:50 Ohms)



Typical Impedance vs Frequency

