COUPLED INDUCTORS,COMMON MODE CHOKES
SDRH1583D SERIES

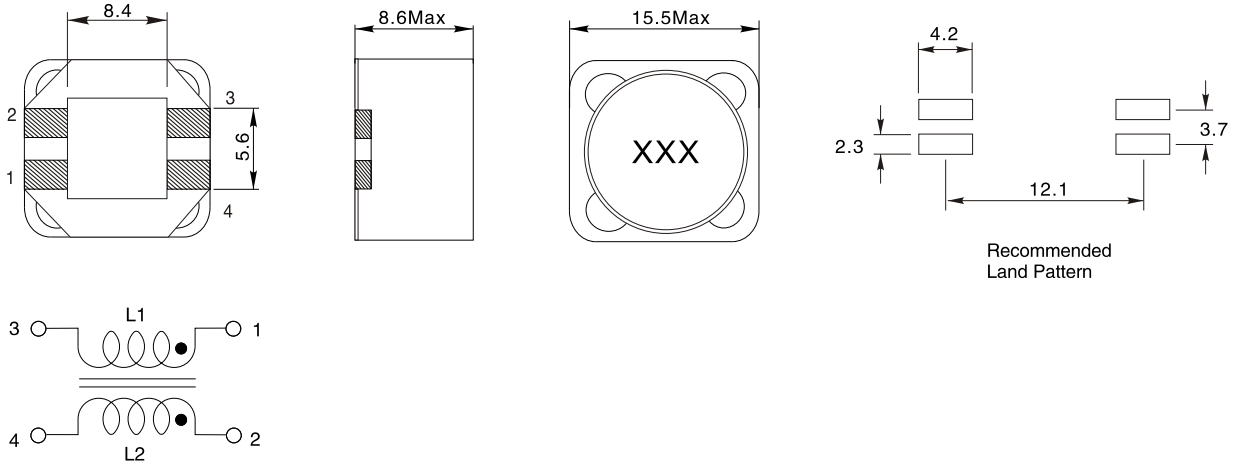
FEATURES:

- Ideal for use in both power line and signal line applications
- Common– and differential–mode filtering in a single device
- Up to 38 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			
SDRH1583D–100M	10.86 @ 17 MHz	38	8.0	10	0.031	500	3.68
SDRH1583D–120M	12.11 @ 16 MHz	30	9.6	12	0.037	500	3.54
SDRH1583D–150M	12.31 @ 14 MHz	25	12.0	15	0.045	500	3.18
SDRH1583D–180M	15.77 @ 13 MHz	25	14.4	18	0.048	500	3.04
SDRH1583D–220M	14.47 @ 12 MHz	28	17.6	22	0.065	500	2.44
SDRH1583D–330M	33.82 @ 9 MHz	28	26.4	33	0.095	500	2.16
SDRH1583D–470M	39.79 @ 7.6 Mhz	23	37.6	47	0.115	500	1.98
SDRH1583D–680M	49.24 @ 5.9 MHz	17	54.4	68	0.165	500	1.56
SDRH1583D–101K	69.83 @ 5 MHz	16	90.0	100	0.260	500	1.24
SDRH1583D–151K	73.09 @ 3.9 MHz	12	135	150	0.380	500	1.06
SDRH1583D–221K	78.91 @ 3.3 MHz	9.7	198	220	0.460	500	0.92
SDRH1583D–471K	104.9 @ 2.2 MHz	7.4	423	470	1.04	500	0.65
SDRH1583D–102K	129.0 @ 1.5 MHz	5.8	900	1000	2.40	500	0.42

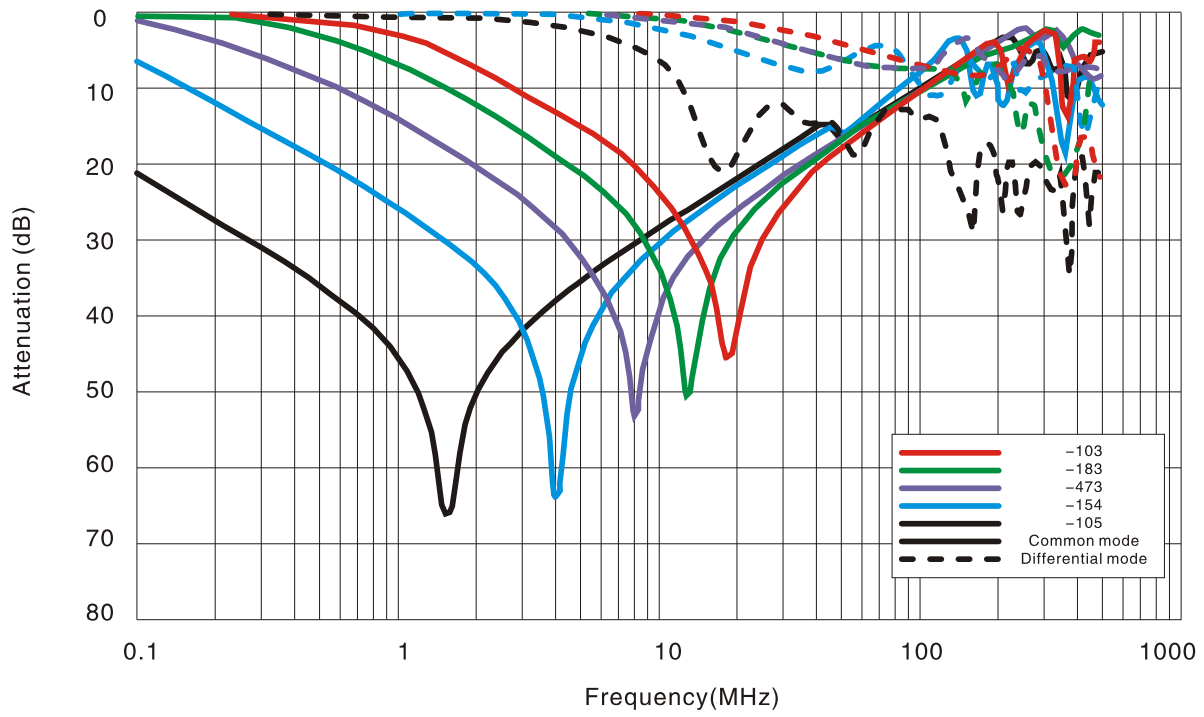
PHYSICAL CHARACTERISTICS & WINDING:



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 ℃ temperature rise from 25 ℃ ambient. This information is for reference only and does not represent absolute maximum ratings
6. Electrical specifications at 25 ℃
7. Ambient temperature –40 ℃ to +85 ℃ with Irms current. Maximum part temperature +125 ℃ (ambient + temp rise).
8. Storage temperature Component: –40 ℃ to +125 ℃ .
9. Tape and reel packaging: –40 ℃ to +80 ℃

PERFORMANCE CURVE:

TYPICAL ATTENUATION (REF: 50 OHMS)



TYPICAL IMPEDANCE VS FREQUENCY