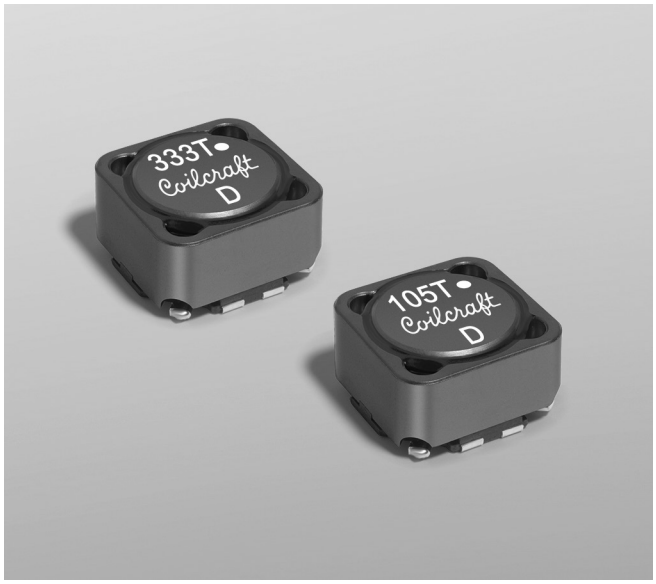
NEW!

Common Mode Chokes – MSD1583T

RoHS/ REACH COMPLIANT

Halogen Free

AEC Q200 +125°C



- Only 8.6 mm high and 15 mm square
- 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
- AEC-Q200 qualified

Core material Ferrite

Weight: 3.7 – 4.4 g

Environmental RoHS compliant, halogen free

Terminations RoHS compliant matte tin over nickel over phos bronze. Other terminations available at additional cost.

Ambient temperature –40°C to +125°C with Irms current.

Maximum part temperature +165°C (ambient + temp rise).

Storage temperature Component: –40°C to +165°C. Tape and reel packaging: –40°C to +80°C

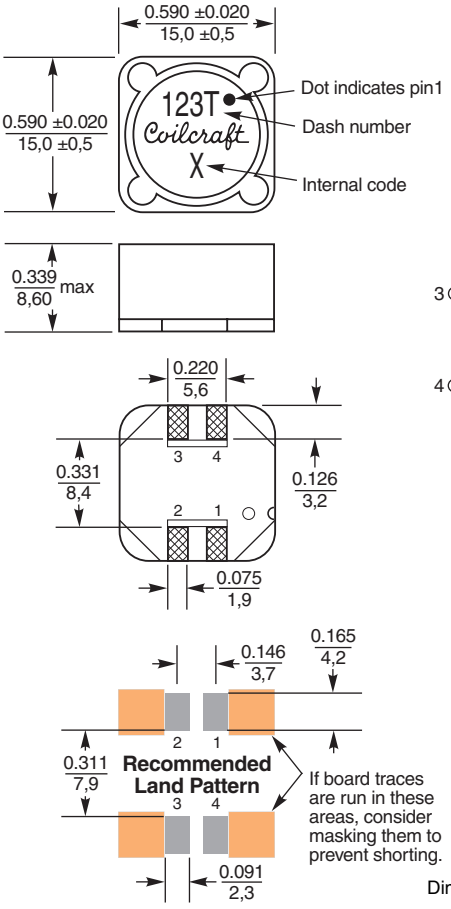
Winding-to-winding isolation 500 Vrms, one minute

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Packaging 300/13″ reel; Plastic tape: 32 mm wide, 0.5 mm thick, 24 mm pocket spacing, 8.6 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.



Dimensions are in inches / mm

Coilcraft®
www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

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Specification subject to change without notice
Please check web site for latest information

Common Mode Chokes – MSD1583T Series

Partnumber[1]	Common mode impedance max (kOhms)	Cutoff frequency[2] (MHz)	Inductance (µH)[3] min	Inductance (µH)[3] nom	DCR max[4] (Ohms)	Isolation[5] (Vrms)	Irms[6] (A)
MSD1583T-103MED	10.86 @ 17 MHz	38	8.0	10	0.031	500	3.68
MSD1583T-123MED	12.11 @ 16 MHz	30	9.6	12	0.037	500	3.54
MSD1583T-153MED	12.31 @ 14 MHz	25	12.0	15	0.045	500	3.18
MSD1583T-183MED	15.77 @ 13 MHz	25	14.4	18	0.048	500	3.04
MSD1583T-223MED	14.47 @ 12 MHz	28	17.6	22	0.065	500	2.44
MSD1583T-333MED	33.82 @ 9 MHz	28	26.4	33	0.095	500	2.16
MSD1583T-473MED	39.79 @ 7.6 MHz	23	37.6	47	0.115	500	1.98
MSD1583T-683MED	49.24 @ 5.9 MHz	17	54.4	68	0.165	500	1.56
MSD1583T-104KED	69.83 @ 5 MHz	16	90.0	100	0.260	500	1.24
MSD1583T-154KED	73.09 @ 3.9 MHz	12	135	150	0.380	500	1.06
MSD1583T-224KED	78.91 @ 3.3 MHz	9.7	198	220	0.460	500	0.92
MSD1583T-474KED	104.9 @ 2.2 MHz	7.4	423	470	1.04	500	0.65
MSD1583T-105KED	129.0 @ 1.5 MHz	5.8	900	1000	2.40	500	0.42

1. When ordering, please specify **termination** code:

MSD1583T-105KED

Termination: **E** = RoHS compliant matte tin over nickel over phos bronze.
Special order: **Q** = RoHS tin-silver-copper (95.5/4/0.5) or **P** = non-RoHS tin-lead (63/37).

Packaging: **D** = 13″ machine-ready reel. EIA-481 embossed plastic tape (300 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).

2. Frequency at which the differential mode attenuation equals 3 dB
3. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.
4. DCR is for each winding.
5. Interwinding isolation (hipot) tested for one minute.
6. 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.
7. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

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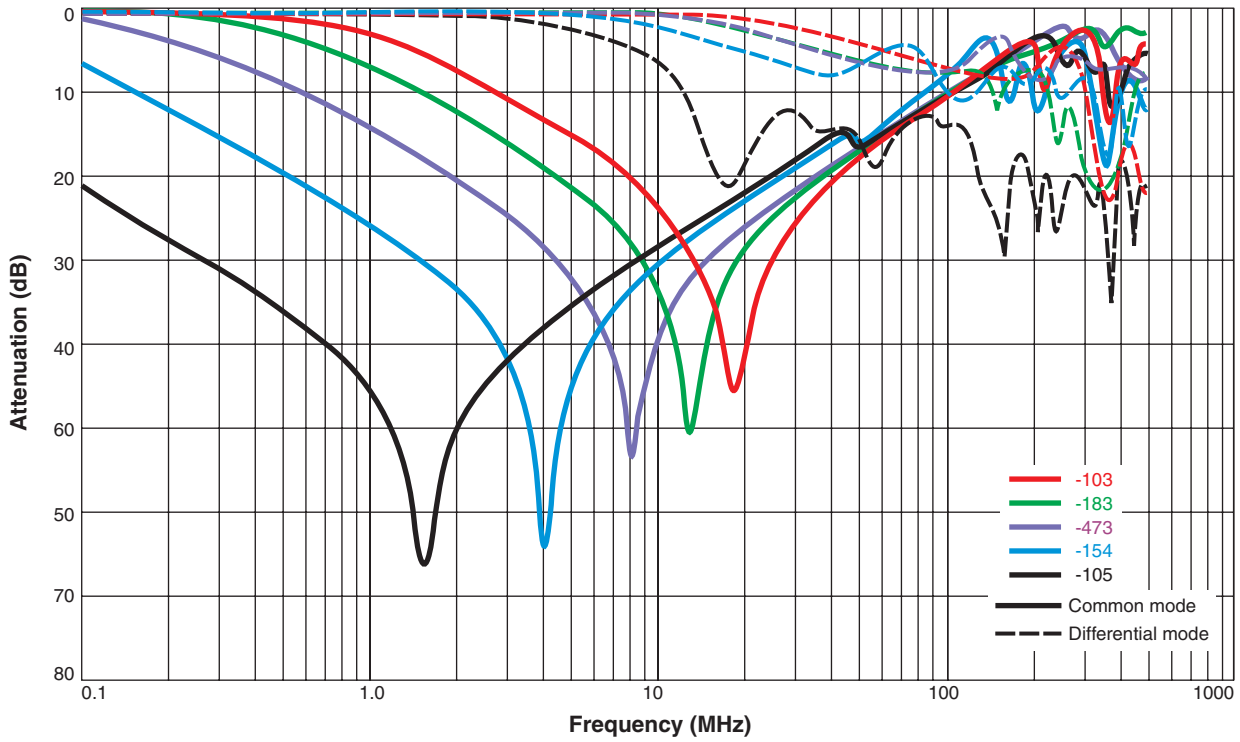
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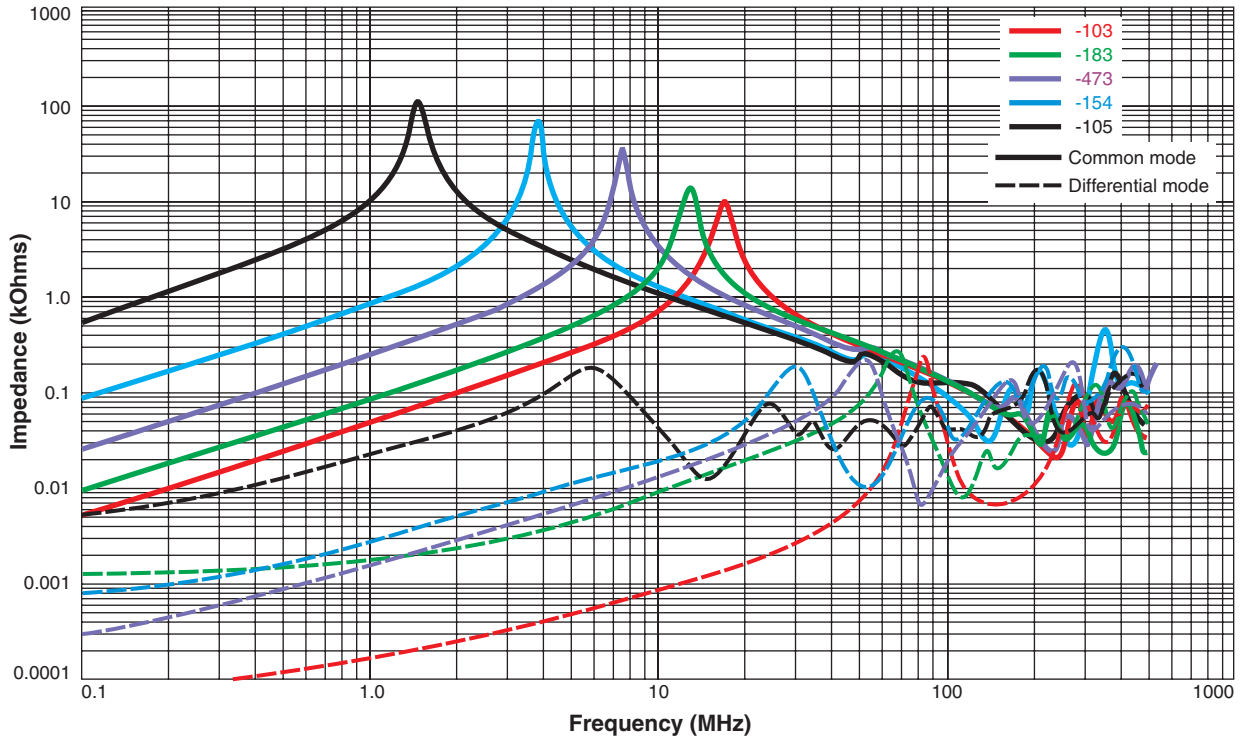
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Common Mode Chokes – MSD1583T Series

Typical Attenuation (Ref: 50 Ohms)



Typical Impedance vs Frequency



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US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
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