

CMS-SERIES
Common Mode Inductors
(Surface Mount)

Part Number	OCL (uH) minimum (1-2) & (3-4)	I rms. Amperes Max *	DCR (Ω) typ @ 20°C (1-2)	DCR (Ω) typ @ 20°C (4-3)	Leakage Inductance (uH) typ	Interwinding Capacitance (pF) typ
CMS3-4-R	88	3.95	0.010	0.010	0.85	3.50
CMS3-5-R	146	3.10	0.017	0.017	1.30	3.70
CMS3-6-R	217	2.85	0.020	0.020	1.90	3.90
CMS3-7-R	258	2.45	0.027	0.027	2.20	4.15
CMS3-8-R	350	2.00	0.040	0.040	3.00	4.40
CMS3-9-R	400	1.70	0.053	0.053	3.30	4.65
CMS3-10-R	518	1.45	0.076	0.076	4.20	4.85
CMS3-11-R	648	1.20	0.107	0.107	5.10	5.10
CMS3-12-R	790	1.05	0.145	0.145	6.10	5.35
CMS3-13-R	1030	0.88	0.210	0.210	7.80	5.55
CMS3-14-R	1310	0.75	0.300	0.300	9.60	5.80

Definitions:

OCL = Open Circuit Inductance

DCR = Direct Current Resistance

I_{rms} = rms current for approx. a 40°C temperature rise at an ambient temperature of 85°C.

*Operating Temperature: 160°C Max. Inductance values are sustained up to 160°C.

Electrical Characteristics:

OCL (1-2) 0.10Vrms, 100kHz, 0.0Adc; (See Chart)

OCL (4-3) 0.10Vrms, 100kHz, 0.0Adc; (See Chart)

DCR (1-2) typ @ 20°C; (See Chart)

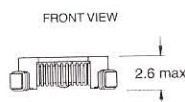
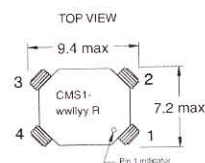
DCR (4-3) typ @ 20°C; (See Chart)

Hipot rating: winding to winding: 300Vdc min. for 1 second.

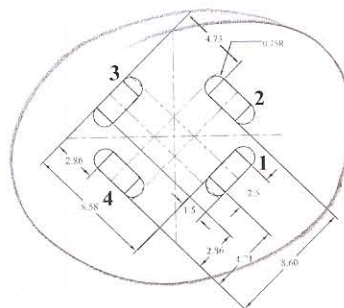
Turns Ratio: (1-2):(4-3) 1:1

Mechanical Diagrams

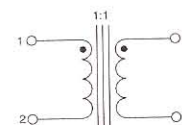
CMS1 Series



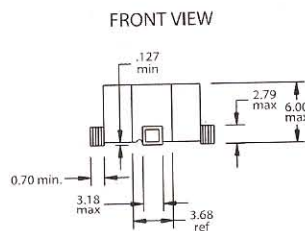
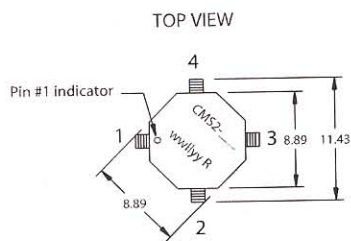
RECOMMENDED PCB LAYOUT



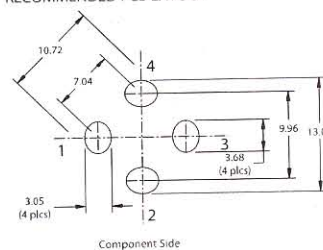
SCHEMATIC



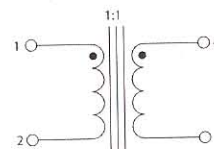
CMS2 Series



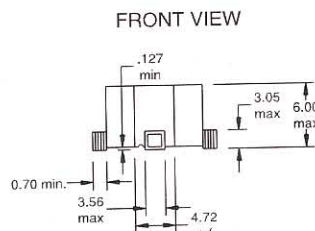
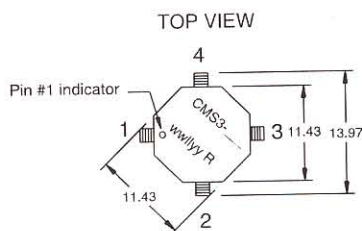
RECOMMENDED PCB LAYOUT



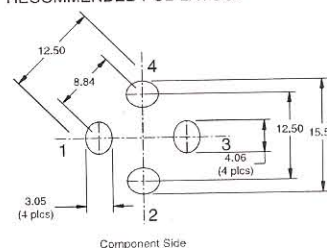
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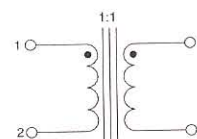
CMS3 Series



RECOMMENDED PCB LAYOUT



SCHEMATIC



wwllyy = Date code R = Revision level