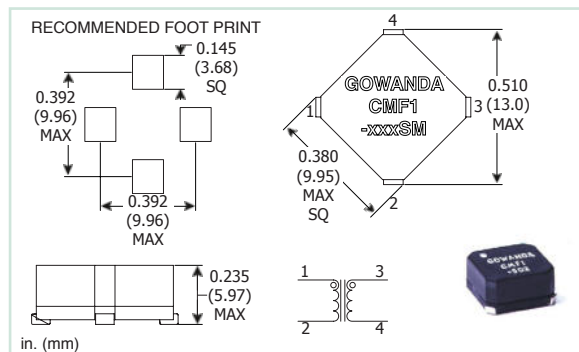


CMF1SM TRADITIONAL Pb
CMF1SMLF* ROHS COMPLIANT

Common Mode Transformer Choke

PART NUMBER	L μ H @ 10 kHz	DCR Ω MAX	CURRENT RATING mA DC	LEAKAGE L μ H REF	INTERWINDING CAPACITANCE pF REF
CMF1-1003SM	100	0.026	2.8	0.91	1.86
CMF1-2503SM	250	0.070	1.7	1.97	2.43
CMF1-5003SM	500	0.192	1.0	3.55	2.71
CMF1-7503SM	750	0.354	0.7	4.85	3.37
CMF1-1004SM	1000	0.658	0.5	7.96	3.45



NOTES:

- **Operating Temperature Range:**
-55°C to +125°C
- **Current Rating** is based on a 50°C temperature rise at an ambient temperature of 75°C
Note: Current is rated in both windings
- **DWV:** 1250 Vrms
- **Weight Max:** 1.0 grams
- **Marking:** GOWANDA; CMF1; -xxxxSM (dash number)
GOWANDA
CMF1
1003SM
- Excellent Electromagnetic Shielding
- Leakage inductance is tested at pins 1-2 with pins 3-4 shorted or at pins 3-4 with pins 1-2 shorted
- Inductance and DCR is for each side or single winding
- When ordering, specify **termination:**
CMF1-1003SMLF
- **Tolerance:** All part numbers provide 30% tolerance on inductance
- **Termination:** LF = RoHS compliant tin-silver copper over copper
- Custom designs are available to meet your specific requirements; please contact factory

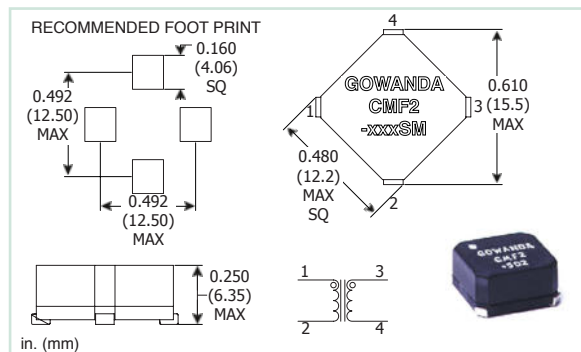
TAPE AND REEL SPECS:

Pcs./Reel maximum:	800
Pitch between parts:	12 mm
Tape width:	24 mm
Reel diameter:	13 in.

CMF2SM TRADITIONAL Pb
CMF2SMLF* ROHS COMPLIANT

Common Mode Transformer Choke

PART NUMBER	L μ H @ 10 kHz	DCR Ω MAX	CURRENT RATING mA DC	LEAKAGE L μ H REF	INTERWINDING CAPACITANCE pF REF
CMF2-1003SM	100	0.035	3.0	2.2	2.6
CMF2-2503SM	250	0.055	2.4	4.5	4.0
CMF2-5003SM	500	0.095	1.8	7.0	5.2
CMF2-7503SM	750	0.150	1.5	11.0	6.0
CMF2-1004SM	1000	0.210	1.2	13.0	7.0



NOTES:

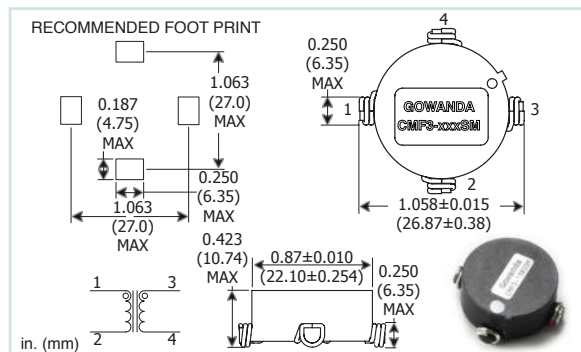
- **Operating Temperature Range:** -55°C to +125°C
- **Current Rating** is based on a 50°C temperature rise at an ambient temperature of 75°C
Note: Current is rated in both windings
- **DWV:** 1250 Vrms
- **Weight Max:** 1.7 grams
- **Marking:** GOWANDA; CMF2; -xxxxSM (dash number)
GOWANDA
CMF2
1003SM
- Excellent Electromagnetic Shielding
- Leakage inductance is tested at pins 1-2 with pins 3-4 shorted or at pins 3-4 with pins 1-2 shorted
- Inductance and DCR is for each side or single winding
- When ordering, specify **termination:**
CMF2-1003SMLF
- Tolerance:** All part numbers provide 30% tolerance on inductance
- Termination:** LF = RoHS compliant tin-silver copper over copper
- Custom designs are available to meet your specific requirements; please contact factory

TAPE AND REEL SPECS:

Pcs./Reel maximum:	640
Pitch between parts:	16 mm
Tape width:	24 mm
Reel diameter:	13 in.

CMF3SM TRADITIONAL Pb CMF3SMLF* ROHS COMPLIANT

Common Mode Transformer Choke



PART NUMBER	L μ H @ 10 kHz	DCR Ω MAX	CURRENT RATING mA DC	LEAKAGE L μ H REF
CMF3-2502SM	25	0.010	8.5	0.4
CMF3-5002SM	50	0.010	8.5	0.7
CMF3-1003SM	100	0.012	7.7	1.4
CMF3-1503SM	150	0.012	7.7	1.7
CMF3-2003SM	200	0.014	7.2	2.0
CMF3-3003SM	300	0.018	6.3	3.0
CMF3-4503SM	450	0.022	5.7	4.8
CMF3-6503SM	650	0.025	5.3	6.0
CMF3-1004SM	1000	0.045	4.0	9.3
CMF3-1504SM	1500	0.080	3.0	14.5
CMF3-2504SM	2500	0.150	2.2	24.0

NOTES:

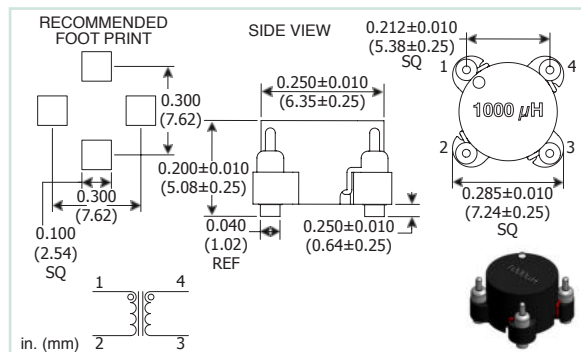
- **Operating Temperature Range:**
-55°C to +125°C
- **Current Rating** is based on a 50°C temperature rise at an ambient temperature of 75°C
Note: Current is rated in both windings
- **DWV:** 1250 Vrms
- **Weight Max:** 9.73 grams
- **Marking:** GOWANDA; CMF3; -xxxxSM (dash number)
GOWANDA
CMF3-2502SM
- Excellent Electromagnetic Shielding
- Leakage inductance is tested at pins 1-2 with pins 3-4 shorted or at pins 3-4 with pins 1-2 shorted
- Inductance and DCR is for each side or single winding
- When ordering, specify **termination**:
CMF3-2502SMLF
- Tolerance:** All part numbers provide 25% tolerance on inductance
- Termination:** LF = RoHS compliant tin-silver copper over copper
- Custom designs are available to meet your specific requirements; please contact factory

TAPE AND REEL SPECS:

Pcs./Reel maximum:	190
Pitch between parts:	32 mm
Tape width:	44 mm
Reel diameter:	13 in.

CMF61SM CMF61SMLF*

Common Mode Transformer Choke



PART NUMBER	L μH @ 10 kHz	DCR Ω MAX	CURRENT RATING A RMS MAX	LEAKAGE L μH NOM
CMF61-2502SM	25	0.010	3.0	0.20
CMF61-4702SM	47	0.015	2.5	0.30
CMF61-6802SM	68	0.020	2.0	0.40
CMF61-1003SM	100	0.030	1.6	0.50
CMF61-1503SM	150	0.040	1.3	0.70
CMF61-2203SM	220	0.060	1.0	1.10
CMF61-3303SM	330	0.090	0.75	1.50
CMF61-4703SM	470	0.125	0.60	1.70
CMF61-6803SM	680	0.170	0.50	2.00
CMF61-1004SM	1000	0.250	0.40	2.80
CMF61-1204SM	1200	0.350	0.30	3.50
CMF61-1504SM	1500	0.500	0.24	4.30
CMF61-2204SM	2200	0.750	0.18	6.00

NOTES:

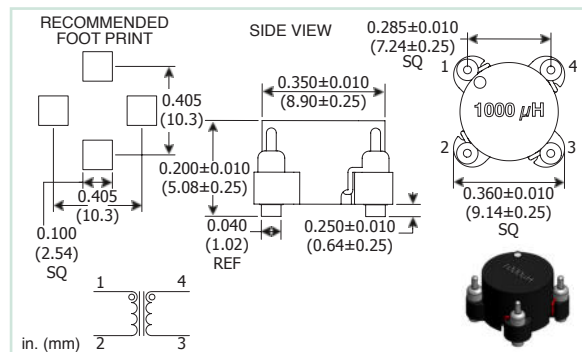
- **Operating Temperature Range:** -55°C to +125°C
- **Current Rating** is based on a 40°C temperature rise at an ambient temperature of 15°C
Note: Current is rated in both windings
- **DWV:** 1250 Vrms
- **Weight Max:** 0.50 grams
- **Marking:** inductance value; color dot
1000 μH
- Excellent Electromagnetic Shielding
- Leakage inductance is tested at pins 1-2 with pins 3-4 shorted or at pins 3-4 with pins 1-2 shorted
- Inductance and DCR is for each side or single winding
- Windings balanced within 2%
- When ordering, specify **termination:**
CMF61-2502SMLF
- **Tolerance:** All part numbers provide 30% tolerance on inductance
- **Termination:** LF = RoHS compliant tin-silver copper over copper
- Custom designs are available to meet your specific requirements; please contact factory

TAPE AND REEL SPECS:

Pcs./Reel maximum:	1050
Pitch between parts:	16 mm
Tape width:	16 mm
Reel diameter:	13 in.

CMF63SM
CMF63SMLF

Common Mode Transformer Choke



PART NUMBER	L µH @ 10 kHz	DCR Ω MAX	CURRENT RATING A RMS MAX	LEAKAGE L µH NOM
CMF63-3302SM	33	0.007	5.50	0.20
CMF63-4702SM	47	0.008	5.00	0.30
CMF63-6802SM	68	0.010	4.20	0.42
CMF63-1003SM	100	0.014	3.30	0.55
CMF63-1503SM	150	0.020	2.70	0.85
CMF63-2203SM	220	0.027	2.20	1.20
CMF63-3303SM	330	0.040	1.80	1.80
CMF63-4703SM	470	0.060	1.50	1.60
CMF63-6803SM	680	0.090	1.20	2.10
CMF63-1004SM	1000	0.130	0.90	2.80
CMF63-1504SM	1500	0.190	0.75	4.20
CMF63-2204SM	2200	0.300	0.60	6.00
CMF63-3304SM	3300	0.550	0.40	9.00
CMF63-4704SM	4700	1.050	0.25	1300

NOTES:

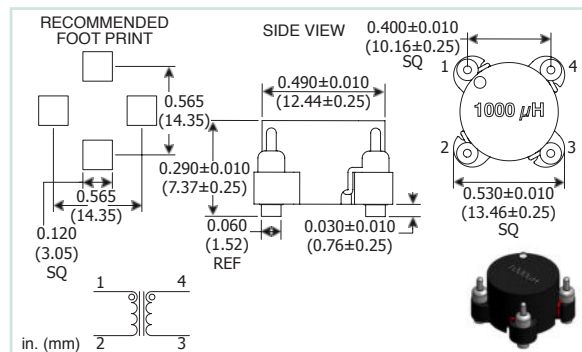
- **Operating Temperature Range:**
-55°C to +125°C
- **Current Rating** is based on a 40°C temperature rise at an ambient temperature of 15°C
Note: Current is rated in both windings
- **DWV:** 500 Vrms (winding to case top surface)
- **Weight Max:** 0.85 grams
- **Marking:** inductance value; color dot
1000 µH
- Excellent Electromagnetic Shielding
- Leakage inductance is tested at pins 1-2 with pins 3-4 shorted or at pins 3-4 with pins 1-2 shorted
- Inductance and DCR is for each side or single winding
- Windings balanced within 2%
- When ordering, specify **termination:**
CMF63-3302SMLF
- **Tolerance:** All part numbers provide 25% tolerance on inductance
- **Termination:** LF = RoHS compliant tin-silver copper over copper
- Custom designs are available to meet your specific requirements; please contact factory

TAPE AND REEL SPECS:

Pcs./Reel maximum:	800
Pitch between parts:	16 mm
Tape width:	24 mm
Reel diameter:	13 in.

CMF64SM TRADITIONAL Pb CMF64SMLF RoHS COMPLIANT

Common Mode Transformer Choke



PART NUMBER	L μ H @ 10 kHz	DCR Ω MAX	CURRENT RATING A RMS MAX	LEAKAGE L μ H NOM
CMF64-1003SM	100	0.006	7.0	0.7
CMF64-1503SM	150	0.010	5.5	1.0
CMF64-2203SM	220	0.012	5.0	1.4
CMF64-3303SM	330	0.017	4.0	1.8
CMF64-5003SM	500	0.024	3.3	2.2
CMF64-7503SM	750	0.035	2.7	3.0
CMF64-1004SM	1000	0.049	2.2	4.0
CMF64-1204SM	1200	0.068	1.7	5.0
CMF64-1804SM	1800	0.106	1.4	5.5
CMF64-2204SM	2200	0.150	1.1	7.0
CMF64-3304SM	3300	0.210	0.85	9.5
CMF64-5004SM	5000	0.320	0.70	14
CMF64-7504SM	7500	0.640	0.44	22
CMF64-1005SM	10000	0.900	0.33	29

NOTES:

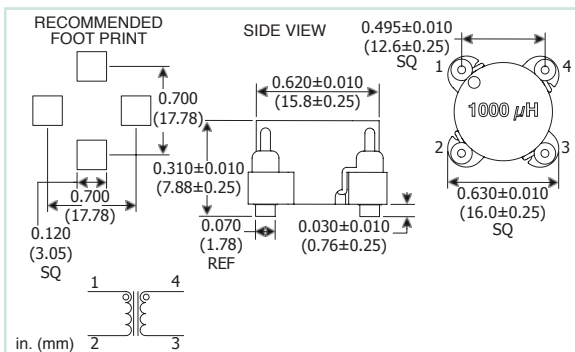
- **Operating Temperature Range:**
-55°C to +125°C
- **Current Rating** is based on a 40°C temperature rise at an ambient temperature of 25°C
Note: Current is rated in both windings
- **DWV:** 1250 Vrms (winding to winding and winding to case on top surface)
- **Weight Max:** 2.8 grams
- **Marking:** inductance value; color dot
1000 μ H
- Excellent Electromagnetic Shielding
- Leakage inductance is tested at pins 1-2 with pins 3-4 shorted or at pins 3-4 with pins 1-2 shorted
- Inductance and DCR is for each side or single winding
- Windings balanced within 2%
- When ordering, specify **termination:**
CMF64-1003SMLF
- **Tolerance:** All part numbers provide 25% tolerance on inductance
- **Termination:** LF = RoHS compliant tin-silver copper over copper
- Custom designs are available to meet your specific requirements; please contact factory

TAPE AND REEL SPECS:

Pcs./Reel maximum:	400
Pitch between parts:	20 mm
Tape width:	24 mm
Reel diameter:	13 in.

CMF65SM TRADITIONAL Pb CMF65SMLF RoHS COMPLIANT

Common Mode Transformer Choke



PART NUMBER	L μ H @ 10 kHz	DCR Ω MAX	CURRENT RATING A RMS MAX	LEAKAGE L μ H NOM
CMF65-1003SM	100	0.005	8.5	0.9
CMF65-1803SM	180	0.007	7.0	1.2
CMF65-3303SM	330	0.015	4.8	2.7
CMF65-5003SM	500	0.023	3.6	4.5
CMF65-7503SM	750	0.034	3.0	6.8
CMF65-1004SM	1000	0.047	2.4	8.6
CMF65-1804SM	1800	0.080	1.9	13
CMF65-2204SM	2200	0.105	1.5	19
CMF65-3304SM	3300	0.160	1.2	18
CMF65-5004SM	5000	0.240	0.95	26
CMF65-7504SM	7500	0.360	0.75	35
CMF65-1005SM	10000	0.530	0.55	45
CMF65-1205SM	12000	0.730	0.45	55
CMF65-1505SM	15000	1.1	0.35	68

NOTES:

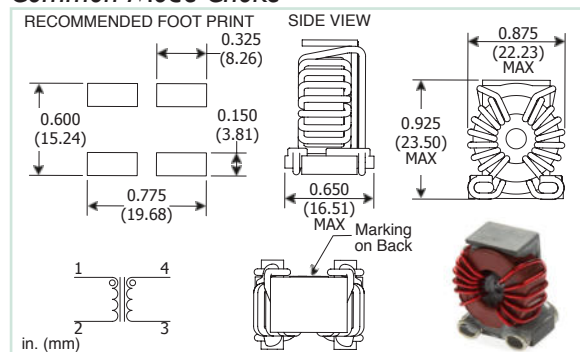
- **Operating Temperature Range:**
-55°C to +125°C
- **Current Rating** is based on a 40°C temperature rise at an ambient temperature of 25°C
Note: Current is rated in both windings
- **DWV:** 1250 Vrms (winding to winding and winding to case on top surface)
- **Weight Max:** 4.0 grams
- **Marking:** inductance value; color dot
1000 μ H
- Excellent Electromagnetic Shielding
- Leakage inductance is tested at pins 1-2 with pins 3-4 shorted or at pins 3-4 with pins 1-2 shorted
- Inductance and DCR is for each side or single winding
- Windings balanced within 2%
- When ordering, specify **termination:**
CMF65-1003SMLF
- **Tolerance:** All part numbers provide 25% tolerance on inductance
- **Termination:** LF = RoHS compliant tin-silver copper over copper
- Custom designs are available to meet your specific requirements; please contact factory

TAPE AND REEL SPECS:

Pcs./Reel maximum:	200
Pitch between parts:	32 mm
Tape width:	44 mm
Reel diameter:	13 in.

CMN3VSM CMN3VSMLF

Vertical Mount
Common Mode Choke



PART NUMBER	L μ H @ 10 kHz	DCR Ω MAX	CURRENT RATING A DC	LEAKAGE L μ H REF	INTERWINDING CAPACITANCE pF REF
CMN3-1803VSM	180	0.0019	16.4	0.45	3.0
CMN3-3903VSM	390	0.0025	14.3	0.60	4.0
CMN3-6803VSM	680	0.0030	13.0	0.85	4.0
CMN3-1004VSM	1000	0.0036	11.9	1.15	4.0
CMN3-1504VSM	1500	0.0051	10.0	1.60	4.0
CMN3-2204VSM	2200	0.0076	8.2	2.05	5.0
CMN3-2704VSM	2700	0.0098	7.2	2.50	5.0
CMN3-3304VSM	3300	0.0109	6.8	3.00	5.0
CMN3-4704VSM	4700	0.0151	5.8	4.00	5.0
CMN3-7504VSM	7500	0.0241	4.6	5.70	6.0
CMN3-1005VSM	10000	0.0347	3.8	7.50	6.0

NOTES:

- **Operating Temperature Range:**
-55°C to +150°C
- **Current Rating** is based on a 60°C temperature rise at an ambient temperature of 90°C
Note: Current is rated in both windings
- **DWV:** 1250 Vrms
- **Marking:** CMN3xxxxVSM (xxxx is the dash number)
CMN3-1803VSM
- Excellent Electromagnetic Shielding
- Inductance and DCR is for each side or single winding
- Windings balanced within 2%
- When ordering, specify **termination:**
CMN3-1803VSMLF
- **Tolerance:** All part numbers provide 35% tolerance on inductance
- **Termination:** LF = RoHS compliant tin-silver copper over copper
- Custom designs are available to meet your specific requirements; please contact factory

TAPE AND REEL SPECS:

Pcs./Reel maximum:	63
Pitch between parts:	32 mm
Tape width:	56 mm
Reel diameter:	13 in.