



东莞铭普光磁股份有限公司
Dongguan Mentech Optical & Magnetic Co., Ltd.

致力于成为全球通信部件领域的引领者

To be the leading supplier to all partners in the telecom industry worldwide.



LAN Magetics Transformer Catalog

Electronics Division

2015 A0

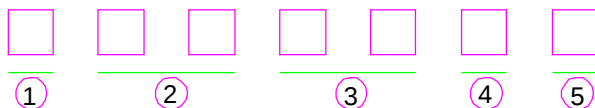
Mentech LAN discrete magnetic transformers are designed and manufactured to comply with IEEE802.3 and ANSI X3.263 standards. Products include 10/100 Base-T, 10/100/1000Base-T, 10G Base-T, Power Over Ethernet and ESD/Surge protected transformers modules. These products are widely used in network equipments, broadband terminals, computer, voice and multimedia and so on.

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Definition of Part Number



Part Name:



Description

①	Product type	H	10/100 Base-T
		G	100/1000 Base-T
		M	10G Base-T
		TE	T1/E1/CEPT/ISDN PRI
②	Number of pins	4 Pin	
		16 Pin	
			
			
			
③	Serial Number	1	
		2	
		3	
			
④	Package	D	Through Hole
		C	Surface Mount(SMT) Open header type
		A	Surface Mount(SMT) Assembly header type
⑤	Extracode	G	RoHS or Halogen free
		E	Operation Temperature,Industrial Grade



Example: H1601CG

H1601CG has the characteristics of a single port, 16pin surface mount , open header package and halogen free.

Manufacturer	IC	10 Base-T	10/100 Base-T			100/1000 Base-T		T1/E1/CEPT/ISDN	
	Part Number	Single	Single	Dual	Quad	Single	Dual	Single	Dual
Cirrus Logic	CS8900A-CQ3	T1602CG							
	CS8952		H1601CE						
	CS8952T		H1601CE	H2401CG					
Cirrus logic(Crystal)	61577 61884 61584/84A							TE1203CG	
	61304A/5A/535A/574A/75							TE1204CG	
	61304A/5A/535A/574A/75							TE1208CE	
	6,131,061,581							TE1208CE	
	61310 61583							TE1602CG	
	61310 61581							TE1602CE	
	LXT914 LXT915 LXT916	T1620CG							
	LXT917 LXT918 LXT944	T1621CG							
	82551/2551QM/551ER			H2401CG	H4001CG				
	82559/559ER		H1601CE		H4001CE				
	LXT970A/971(ALC)/972A								
Intel	LXT972		H1606CG						
	82540/ 541/544/543					G2436CG	G4801CG		
	82544/545/546/547						G5002CG		
	82562						G4830CG		
	82576EB					G2436CG		TE1208CE	
	LXT350,LXT351,LXT359							TE1602CG	
	LXT360/361/362/363							TE1602CE	
	LXT380/381/384/386/388							TE1609CG	
	LXT380/381/384/386/388							TE1609CG	
	LXT3104,LST3108							TE1609CE	
	LXT380/381/384/386/388							TE1609CE	
	LXT3104,LXT3108							TE1203CG	
	LXT380/381.384/386/388							TE1203CG	
	LXT3104,LXT3108								
EXAR	XRT75XXX XRT73L00/2/3/4/6/12	T2401CE							
	XRT73LC03A/04A,R12	T2401CE							
	XRT7300/7302	T2401CE							
	T5684 XRT7288 82D20							TE1201CG	
	XRT5683A,XRT59L91							TE1203CE	
	XRT81L27,82L24,82D20							TE1203CE	
	XRT83L30/4/8/314							TE1208CE	
	86L38 XRT86L30/32/34/38							TE1208CE	
	XRT83L30/4/8/314,86L38							TE1602CG	
	XRT83SL30/4/8/314							TE1602CG	
	XRT86L30/32/34/38							TE1602CE	
	XRT5683A,XRT59L91							TE1609CG	
	XRT5894/5897/5997							TE1609CG	
	XRT81L27,82L24,82D20							TE1609CG	
	XRT75XXX							TE3205CG	
	XRT73L00/2/3/4/6/12								TE3205CG
	XRT73LC03A/04A								TE3205CG
	XRT7300/7302								TE3205CG
Mindspeed	CN28333/332/331							T2401CE	
	M28335/M28356							T2401CE	
	M28354/3/2							T2401CE	
Agere	ET901		H1601CG	H2401CG					
	ET908		H1601CG						
	ET1011 ET1012					G2436CG	G4801CG		
	ET1081						G5002CG		
	ET1310					G2405CG	G4802CG		
	ET2005-40/50						G4830CG		
	ET2008-30/40/50					G2443CG			
	ET3028-50								

Manufacturer	IC Part Number	10 Base-T	10/100 Base-T			100/1000 Base-T		T1/E1/CEPT/ISDN	
		Single	Single	Dual	Quad	Single	Dual	Single	Dual
AMD	AM79C874/C875		H1601CG	H2401CG					
	AM79C971/C972/C973/		H1601CG						
	AM79C975/C976/C977		H1601CG						
Broadcom	AC101, AC101L		H1601CG	H2401CG					
	AC104/205/206/207/208				H4001CG				
	AC131		H1602CG		H4001CG				
	BCM1190		H1601CG						
	BCM5241		H1601CG		H4001CG				
	BCM5220/ 5221		H1601CG						
	BCM5222		H1602CG						
	BCM1100/110/		H1606CG						
	BCM6345/6348		H1602CG						
	BCM5350/5380		H1601CG						
	AC104, BCM5208R		H1601CG						
	BCM5315/5325(M)		H1601CE		H4001CE				
	BCM5225/26/27		H1601CG		H4807CG				
	AC207/208		H1606CG						
	BCM5400, BCM5401					G2413CG	G4801CG		
	BCM5411/21/21S						G5002CG		
	BCM5460/61/81					G2405CG	G4802CG		
	BCM5701/02/03/04/05					G2443CG	G4830CG		
	BCM5461S					G2497AG			
	BCM5789					G2411CG			
	BCM1100/110/AC104, BCM5208R					G2413CG			
	AC1011/1012					G2497AG			
	AC131 BCM5220/5221					G2456CG			
	Infineon ADM7001					G2456CG			
Davicom	DM9000/A		H1601CE	H2401CG					
	DM9102A/D		H1601CG						
	DM9601		H1601CE						
	DM9301/9331		H1606CG						
IC+	3097-F, 3299A			H2401CG	H4001CG				
	IP100A		H1601CE						
	IP108		H1601CE		H4001CE				
	IP1726				H4807CG				
	IP101								
ICS	ICS1890/1891		H1601CG						
	ICS1893					G2413CG			
Infineon	ADM8511/8513/9511		H2401CG						
	ADM9513, AN983B		H1601CG	H2422CG					
	ADM7001		H1601CG						
	ADM6305				H4001CG				
	AN985B/L autoMDX					G2413CG			
	ADM7001					G2456CG			
Luminary Micro	LM3S6938		H1601CG						
	LM3S8962		H1606CG						
LSI	L80223		H1601CG	H2401CG					
	L80227		H1606CG						
	L80600					G2413CG	G4801CG		
	L80601					G2497AG			
Marvell	88E6021			H2401CG	H4001CG				
	88E6060/88E6218		H1601CE		H4001CE				
	88E6052, 88E6063		H1606CG		H4807CG				
Marvell Semiconductor	88E1010/1011S					G2436CG	G4801CG		
	88E1111/12/14/18/19						G5002CG		
	88E1040/1040S/1041						G4830CG		
	88E1041S/1042/1042S					G2443CG			

Manufacturer	IC Part Number	10 Base-T	10/100 Base-T			100/1000 Base-T		T1/E1/CEPT/ISDN	
		Single	Single	Dual	Quad	Single	Dual	Single	Dual
MICREL	KS8721B/21BL/37		H1601CG	H2401CG					
	KS8737		H1601CG						
	KSZ8893		H1606CG						
	KS8995/95M/95MA/95E		H1606CG						
	KS8737					G2413CG			
Micre	KS9020					G2436CG	G4801CG		
Microchip	PIC18F87J50		H1601CG						
	ENC28J60		H1601CG						
MicroLinear	ML6652		H1601CG						
Myson	MTD971		H1601CG	H2401CG					
	MTD981		H1601CG						
Mysticom	MystiPHY110		H1601CE				G4801CG		
Mysticom	MY1001					G2497AG	G5002CG		
National Semiconductor	DP83847		H1601CG	H2401CG					
	DP83848/C		H1636CG						
	DP83816 (macphyter II)		H1601CE						
Realtek	RTL8100C/101L/100B		H1601CG	H2401CG					
	RTL8150			G2413CG					
	RTL8019AS		H1601CE						
	RTL8181/86		H1606CG						
	RTL8208		H1601CG		H4001CG				
	RTL8316				H4001CG				
	RLT8211/12					G2436CG	G4801CG		
	RLT8169						G5002CG		
	RTL8150		H1601CG			G2413CG			
SIS	SiS900		H1606CG						
SMSC	LAN83C183/185		H1601CG	H2401CG					
	LAN8187					G2443CG			
	LAN91C100FD/110								
	LAN91C111	H1606CG							
National Semiconductor	DP83865					G2436CG	G4801CG		
	DP83864					G2497AG	G5002CG		
	DP83640					G2443CG			
Vitesse Semiconductor	VSC8201/8211					G2436CG	G4801CG		
	VSC8221/8601/8641					G2497AG	G5002CG		
	VSC8204/24/34/44					G2401CG			
	VSC8558/8538					G2443CG			
	wVSC7380/7384					G2411CG			
	VSC7388/7398						G4802CG		
Maxim	DS2151/2152/2153/2154							TE1201CG	
	DS2148/Q48							TE1201CG	
	DS21552/Q552							TE1201CG	
	DS21554/Q554							TE1201CG	
	DS2196,2155,2149,21448							TE1208CE	
	DS21352/Q352,DS21354/Q354							TE1208CE	
	DS26502/3 DS21455/8 DS26528							TE1208CE	
	DS2 196,2155,2149,21448							TE1602CG	
	DS2148/Q48/Q348/349/Q59							TE1602CG	
	DS21352/Q552,DS21354/Q354							TE1602CE	
	DS2196,2155,2149,21448							TE1602CE	
	DS2148/Q48/Q348/349/Q59							TE1602CE	
	DS21352/Q352,DS21354/Q354							TE1602CE	
	DS21455/8 DS26528							TE1602CE	
PMC-Sierra	PM4341/6341/4314							TE1201CG	
Infineon Technologies (Siemens)	PM4323/							TE1203CG	
	PM4325							TE1609CG	
	PEB2254/55							TE1201CG	
	PSB21381/82/83/84							TE1603CG	
	PEB3018/86,PSB3186							TE1603CG	

Manufacturer	IC	10 Base-T	10/100 Base-T			100/1000 Base-T		T1/E1/CEPT/ISDN	
	Part Number	Single	Single	Dual	Quad	Single	Dual	Single	Dual
IDT	82V2041E/2E/4E/8E							TE1208CE	
	82V2081/2/4/8 82P2281/2/4/8							TE1602CE	
Mindspeed	M29378/M29374/M29371M29368							TE1602CE	
	CN28333/332/331 M28335								TE3205CG
	M28356 M28354/3/2								TE3205CG
Maxim	DS2 196,2155,2149,21448							TE1602CG	
	DS2148/Q48/Q348/349/Q59							TE1602CG	
	DS21352/Q552,DS21354/Q354							TE1602CG	
	DS26502/3 DS26502/3							TE1602CE	
	DS21455/8 DS26528							TE1602CE	
Zarlink	MT9074,MT9075							TE1617CE	
MOTOROLA	MC145474/4/475							TE1603CG	
	MC145574							TE1604CG	
Transwitch	ART TXC-02020 ARTE TXC-2021								TE3205CG
	DARTTXC-2030,DS3DARTTXC-2030								TE3205CG
	E3 DS3LIM-SN,TSC20153G								TE3205CG
	E3LIM TXC-20163								TE3205CG

Optimization of Product Number

Package Type	Rate	Port	P/N	P/N	P/N	P/N
SMT	10/100 BASE-T	SINGLE PORT	H1601CG	H1604CG	H1606CG	H1631CG
	100/1000 BASE-T	SINGLE PORT	G2401CG	G2405CG	G2488CE	G2497CG
	10/100 BASE-T	QUAD PORT	H4001CG	H4807CG		
	100/1000 BASE-T	DUAL PORT	G4802CG	G4811CG		
DIP	100/1000 BASE-T	SINGLE PORT	G2401DG	G2408DG	G1801DG	G1811DG
	10/100 BASE-T	DUAL PORT	H2001DG	H2002DG	H2052DG	
	100/1000 BASE-T	DUAL PORT	G3601DG	G3608DG	G4801DG	G4804DG
	100/1000 BASE-T	QUAD PORT	G7201DG	G7216DG	G9607DG	
Leading Specification	Rate	Port	P/N	P/N	P/N	P/N
POE+	100/1000 BASE-T	SINGLE PORT	G2462CE	G2484CE	G24102CE	G24115CE
	100/1000 BASE-T	DUAL PORT	G4813CG	G4818CG		
	100/1000 BASE-T	QUAD PORT	G9603DG			
10G	10G	SINGLE PORT	M2401CG	M2403CG		
	10G	DUAL PORT	M4801CG			

- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Through-Hole Type.
- Operating temperature range: 0 °C to +70 °C.

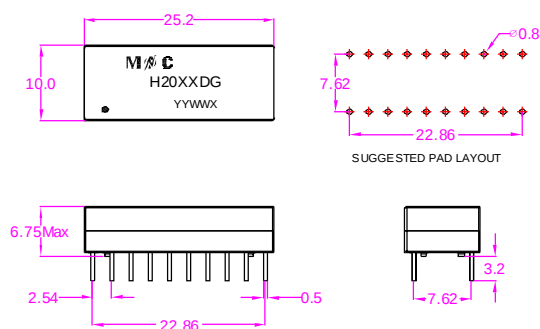


Electrical Specifications @25°C

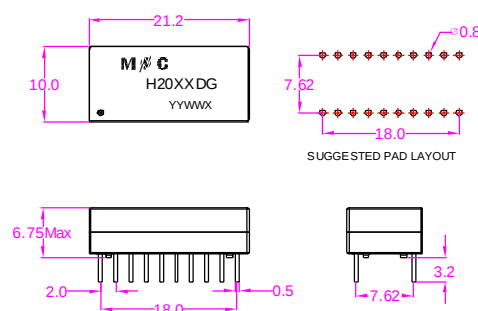
Part Number	OCL(uH) 100KHz, 0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)				Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
			0.5-100MHz	0.5-30MHz	30.1-60MHz	60.1-80MHz		0.5-40MHz	40.1-100MHz	0.5-100MHz	
H2001DG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12		-35	-33+20*log(f/50)	-30	1500
H2002DG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12		-35	-33+20*log(f/50)	-30	1500

MECHANICAL

H2001DG



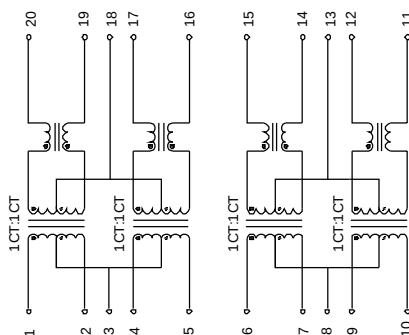
H2002DG



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS

H2001DG, H2002DG



H2001DG	H2002DG
Weight.....1.88 grams	Weight.....1.82 grams
Tube.....20 pcs	Tube.....24 pcs
Small Carton.....1000 pcs	Small Carton.....1200 pcs
Big Carton.....4000 pcs	Big Carton.....4800 pcs

- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Through-Hole Type.
- Operating temperature range: 0 °C to +70 °C.

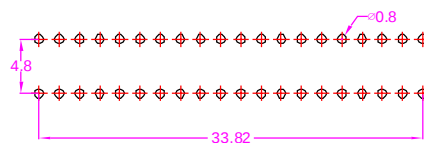
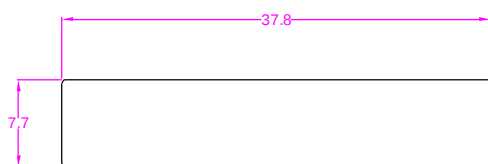


Electrical Specifications @25°C

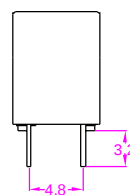
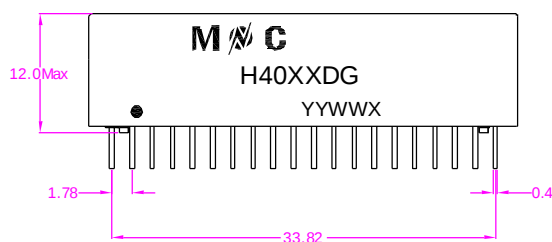
Electrical Specifications @25°C										
Part Number	OCL(μH) 100KHz, 0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-30MHz	30.1-60MHz	60.1-80MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
H4001DG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12	-35	-33+20*log(f/50)	-30	1500
H4006DG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12	-35	-33+20*log(f/50)	-30	1500

MECHANICAL

H4001DG



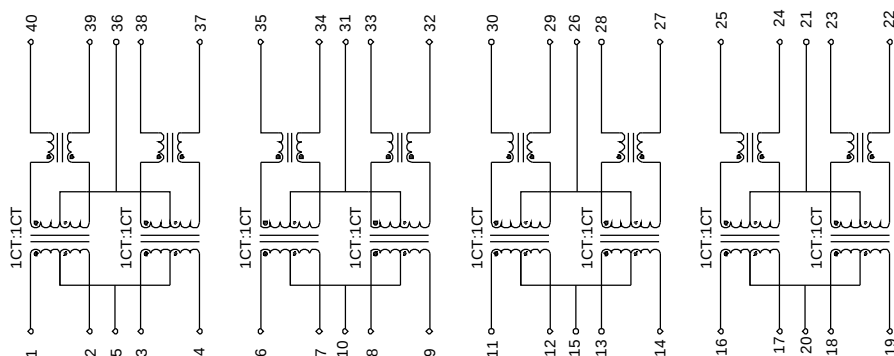
SUGGESTED PAD LAYOUT



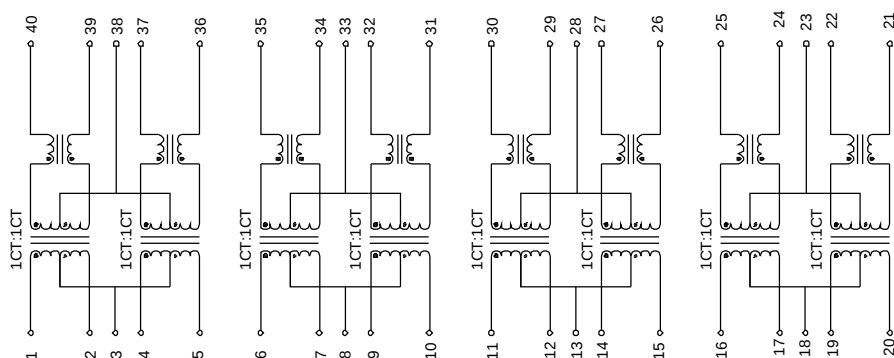
Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS

H4001DG



H4006DG



H4001DG	H4016DG
Weight.....5.60 grams	Weight.....5.85 grams
Tube.....13 pcs	Tube.....13 pcs
Small Carton.....780 pcs	Small Carton.....780 pcs
Big Carton.....3120 pcs	Big Carton.....3120 pcs

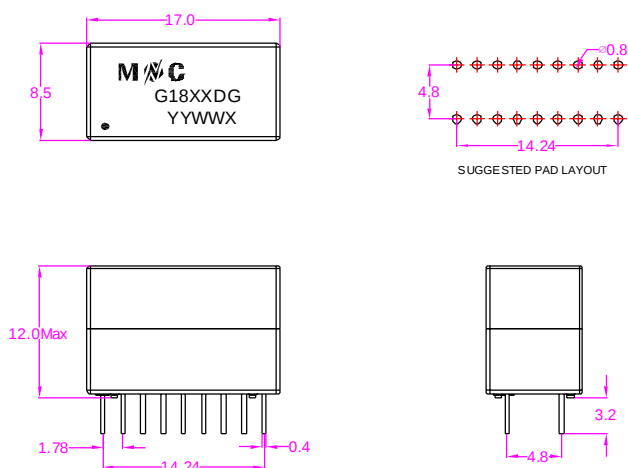
- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type .
- Operating temperature range: 0 °C to +70 °C .



Electrical Specifications @25°C

Part Number	OCL(μH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G1801DG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

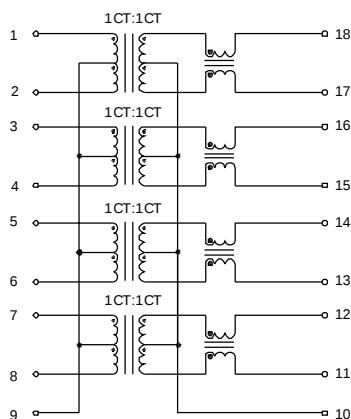
MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

SCHEMATICS

G1801DG



G1801DG

Weight.....2.26 grams
Tube.....30 pcs
Small Carton.....1200 pcs
Big Carton.....4800 pcs

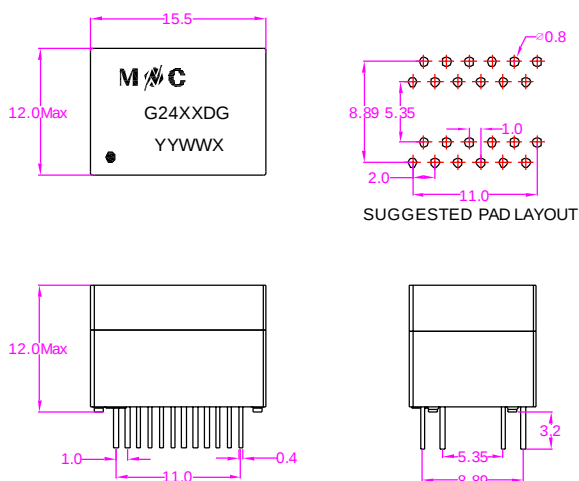
- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type .
- Operating temperature range: 0 °C to +70 °C .



Electrical Specifications @25°C

Part Number	OCL(uH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G2401DG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

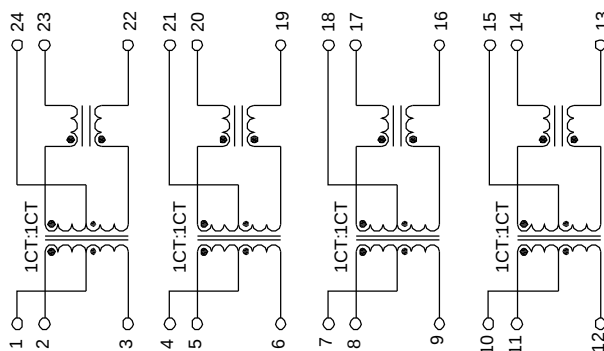
MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

SCHEMATICS

G2401DG



G2401DG

Weight.....2.72 grams
Tube.....32 pcs
Small Carton.....1280 pcs
Big Carton.....5120 pcs

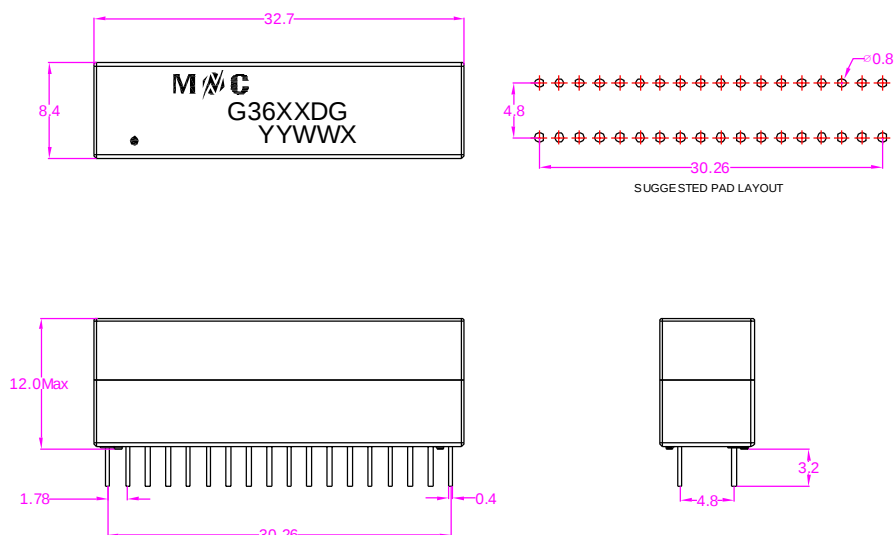
- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25°C

Part Number	OCL(uH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G3601DG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

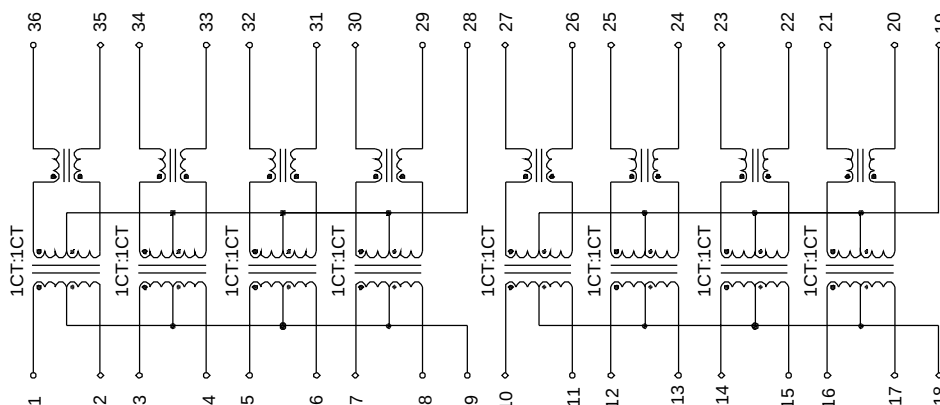
MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS

G3601DG



G3601DG

Weight.....4.05 grams
Tube.....15 pcs
Small Carton.....750 pcs
Big Carton.....3000 pcs

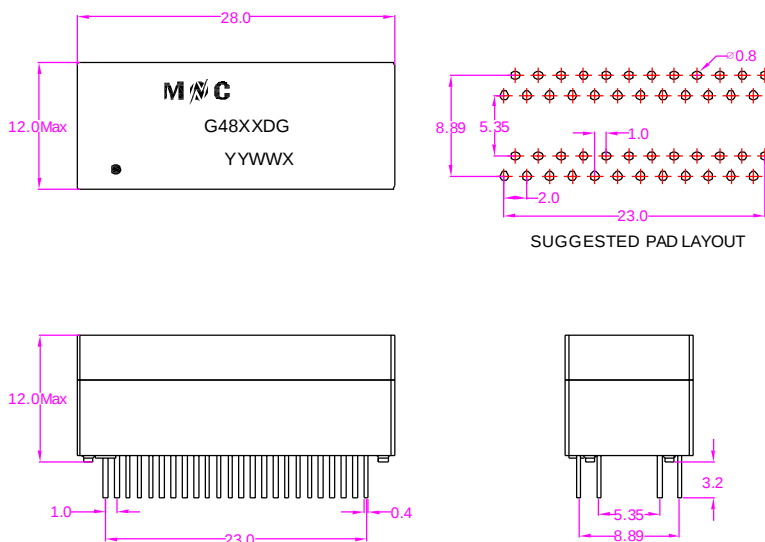
- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type .
- Operating temperature range: 0 °C to +70 °C .



Electrical Specifications @25°C

Part Number	OCL(uH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G4801DG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

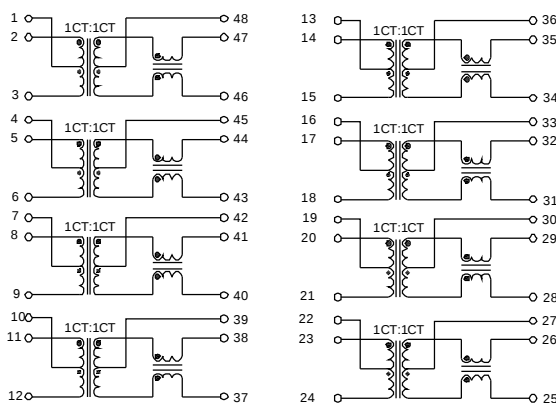
MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS

G4801DG



G4801DG

Weight.....4.50 grams
Tube.....18 pcs
Small Carton.....720 pcs
Big Carton.....2880 pcs

- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type .
- Operating temperature range: 0 °C to +70 °C .

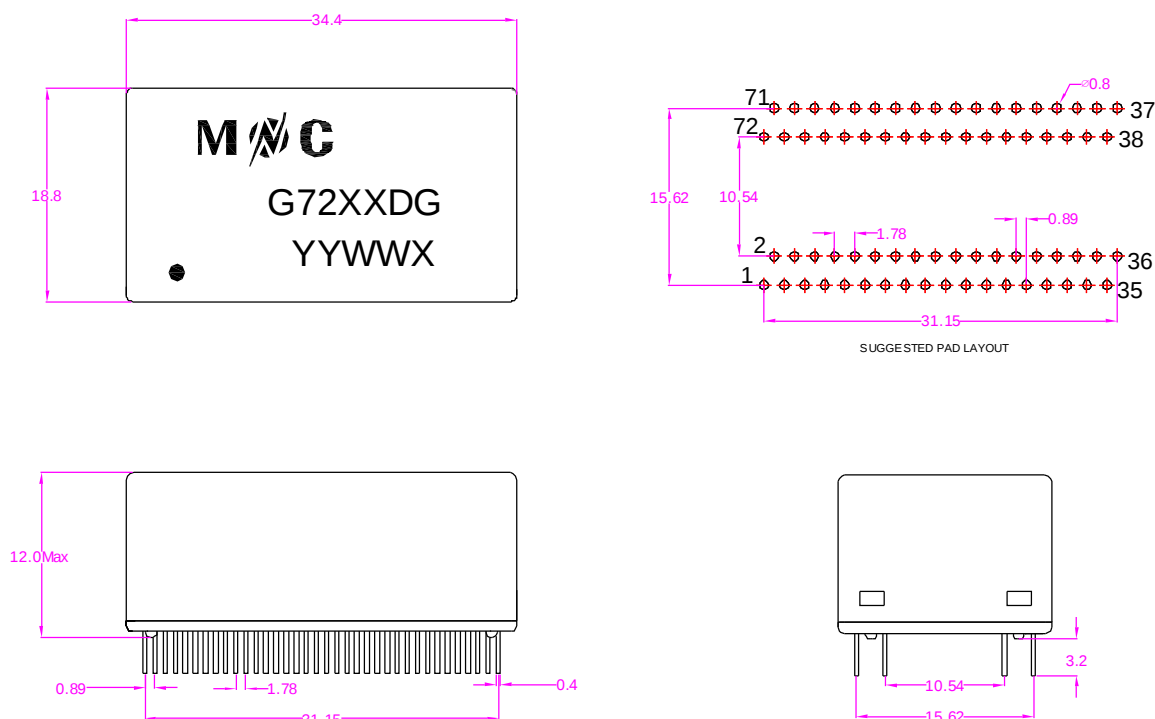


Electrical Specifications @25°C

Part Number	OCL(uH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G7201DG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500
G7216DG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

MECHANICAL

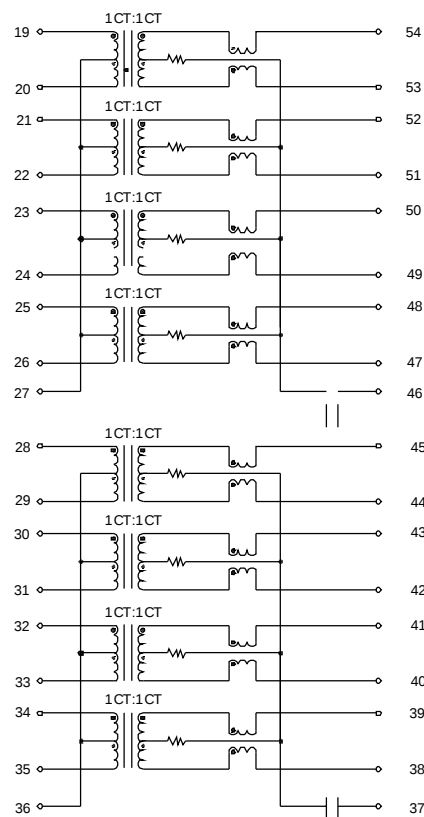
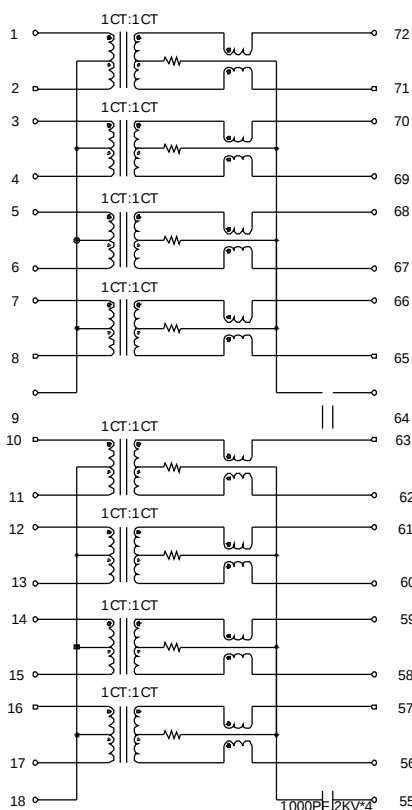
G7201DG,G7216DG



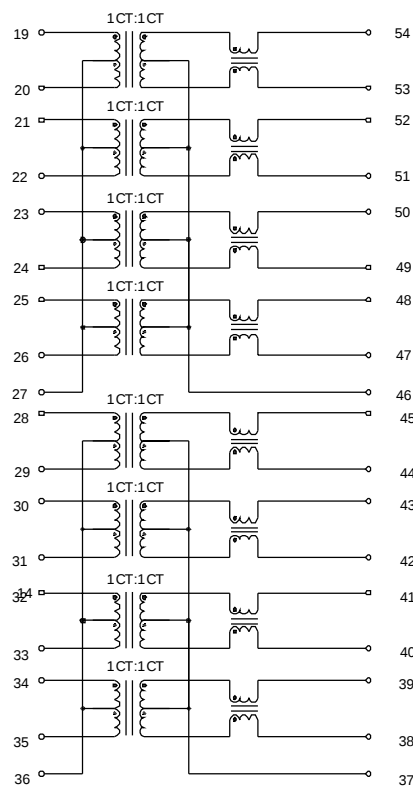
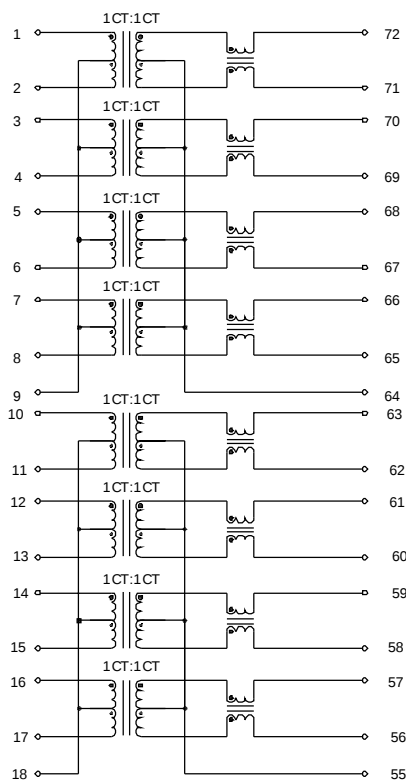
Unless otherwise specified all tolerances are:±0.25 in mm

SCHEMATICS

G7201DG



G7216DG



G7201DG

Weight.....10.58grams
Tube.....14 pcs
Small Carton.....252 pcs
Big Carton.....1008 pcs

G7216DG

Weight.....10.30 grams
Tube.....14 pcs
Small Carton.....252 pcs
Big Carton.....1008 pcs

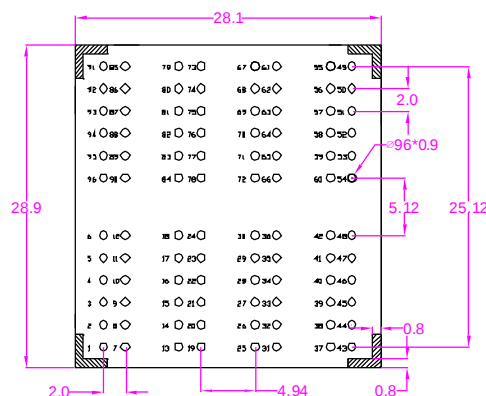
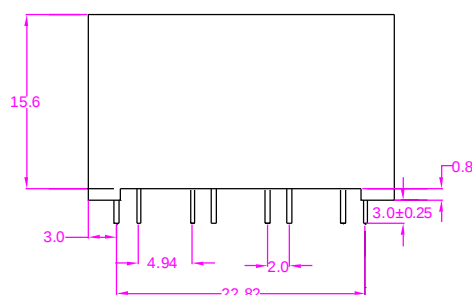
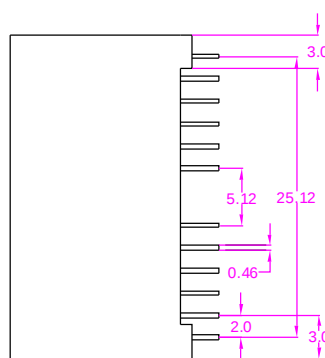
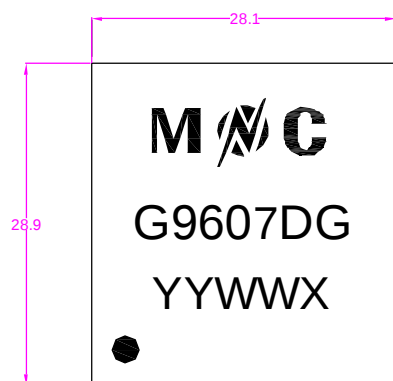
- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type .
- Operating temperature range: 0 °C to +70 °C .



Electrical Specifications @25°C

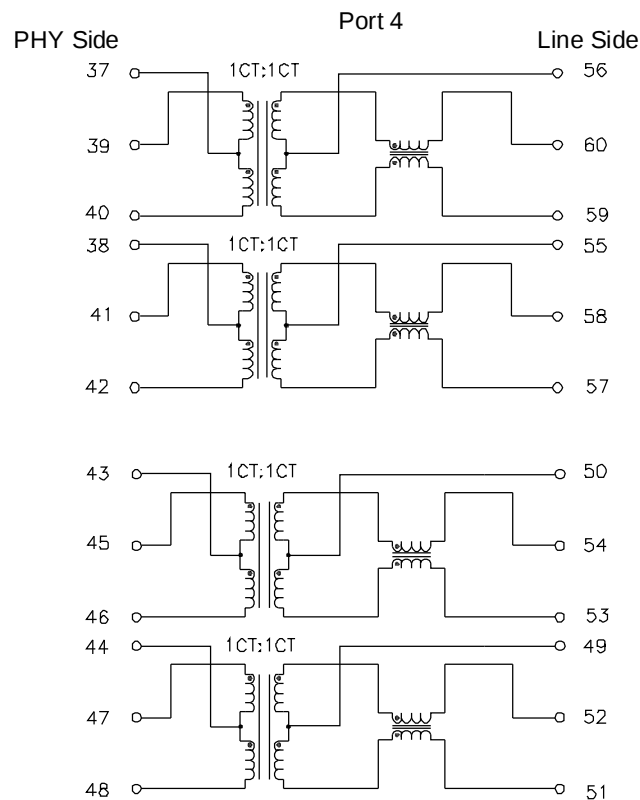
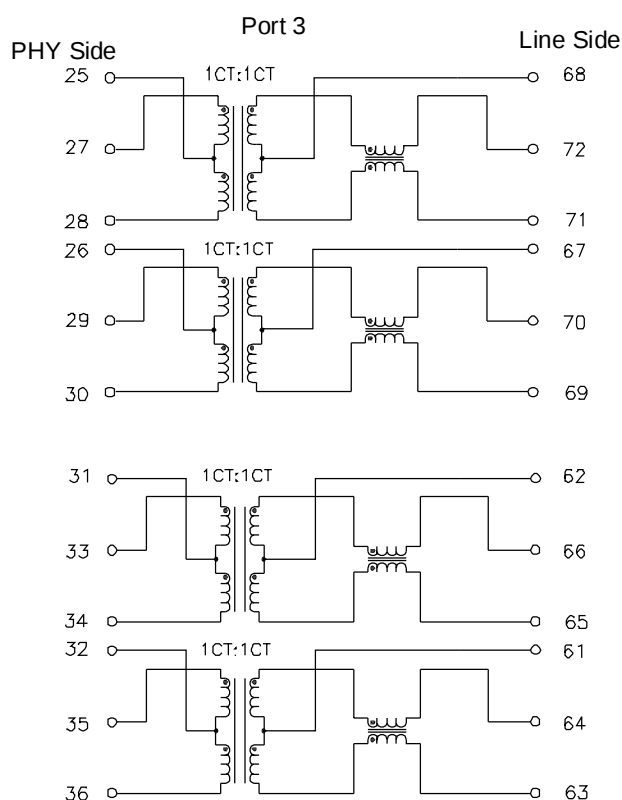
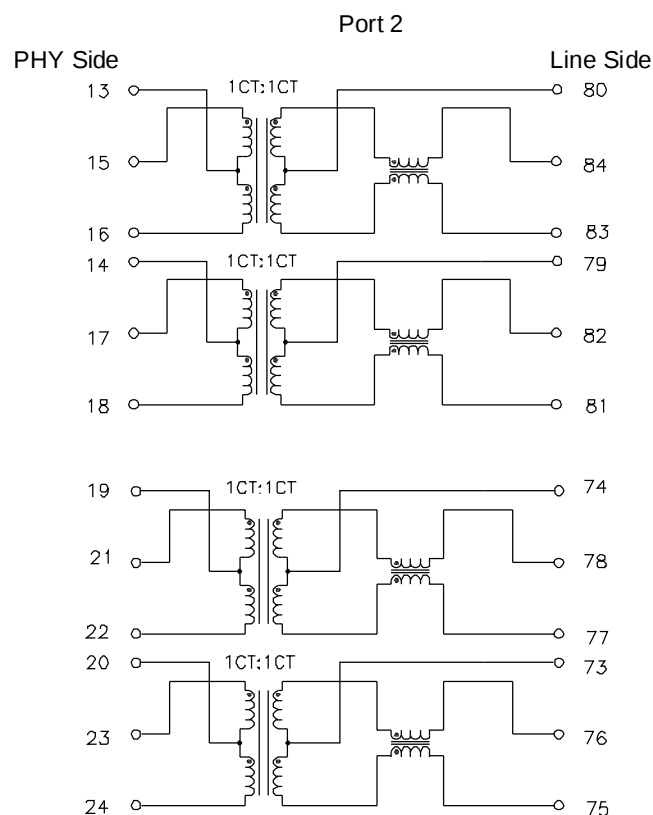
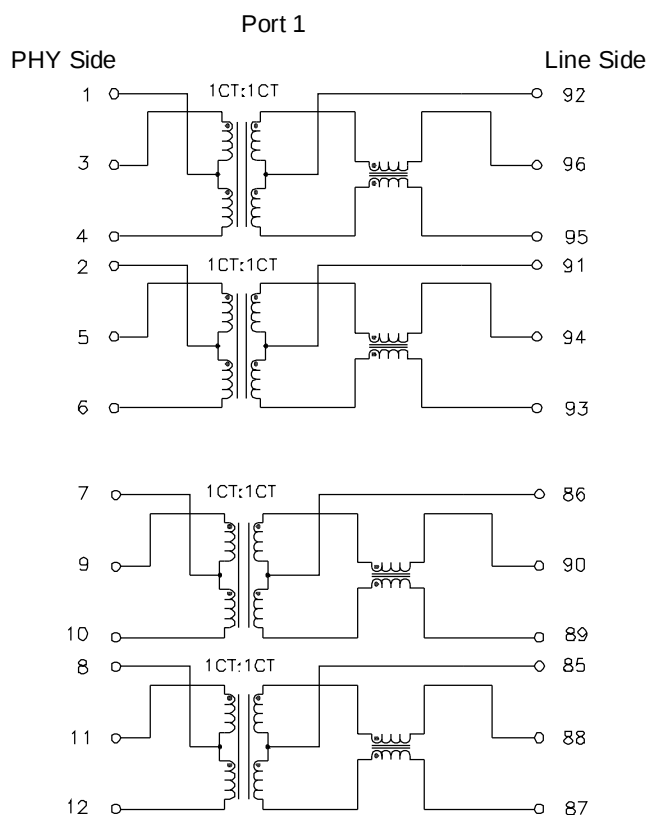
Part Number	OCL(uH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G9607DG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

MECHANICAL



NO COMPONENT AREA.
Suggested Customer PCB Layout
(Component Side)

SCHEMATICS



G9607DG

Weight.....13.07 grams
Tube.....17 pcs
Small Carton.....170 pcs
Big Carton.....680 pcs

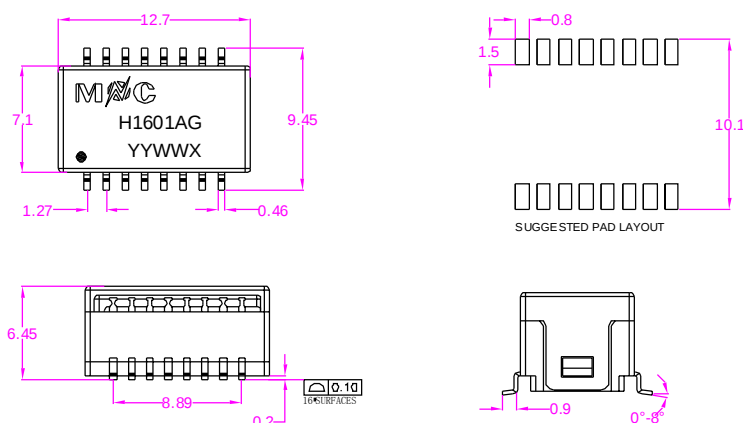
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Assembly Header.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25°C

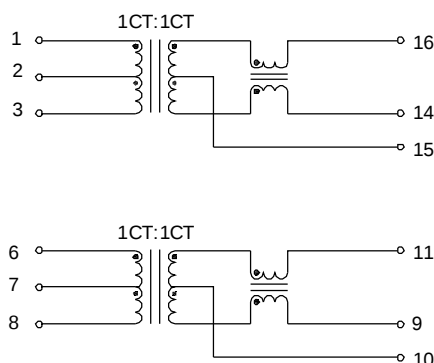
Part Number	OCL(uH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-30MHz	30.1-60MHz	60.1-80MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
H1601AG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12	-35	-33+20*log(f/50)	-30	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



H1601AG

Weight.....0.82 grams
Reel.....500 pcs

- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.

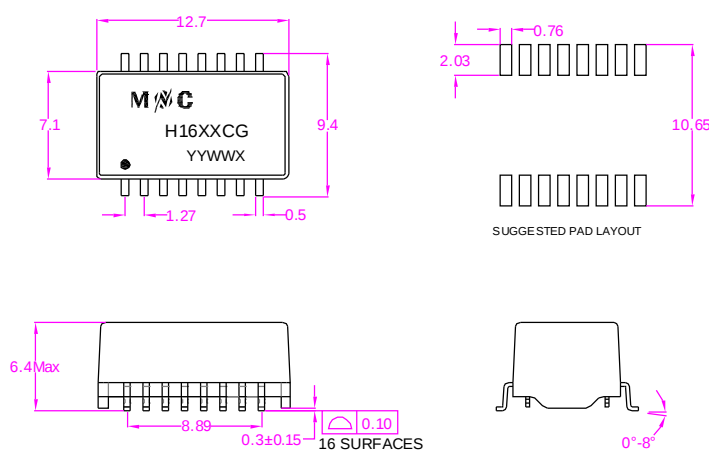


Electrical Specifications @25°C

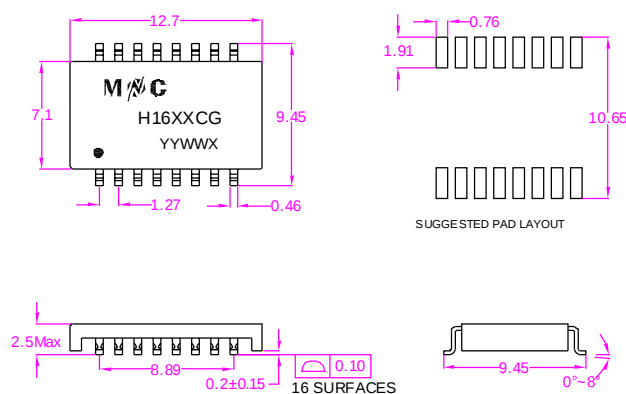
Part Number	OCL(μH) 100KHz, 0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-30MHz	30.1-60MHz	60.1-80MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
H1601CG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12	-35	-33+20*log(f/50)	-30	1500
H1604CG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12	-35	-33+20*log(f/50)	-30	1500
H1606CG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12	-35	-33+20*log(f/50)	-30	1500
H1631CG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12	-35	-33+20*log(f/50)	-30	1500

MECHANICAL

H1601CG H1604CG



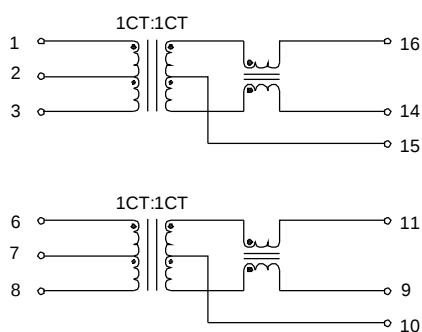
H1631CG



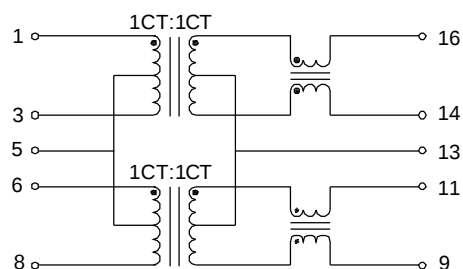
Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS

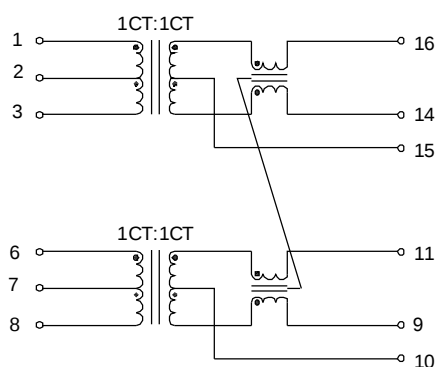
H1601CG



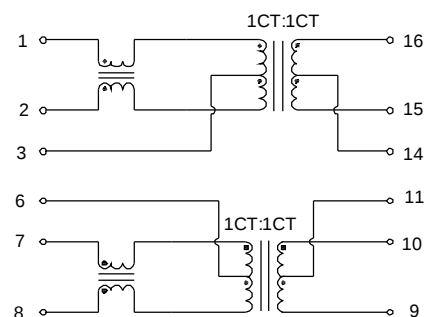
H1604CG



H1606CG



H1631CG



H1601CG

Weight.....0.71 grams
Reel.....600 pcs

H1604CG

Weight.....0.67 grams
Reel.....600 pcs

H1606CG

Weight.....0.66 grams
Reel.....400 pcs

H1631CG

Weight.....0.28 grams
Reel.....1400 pcs

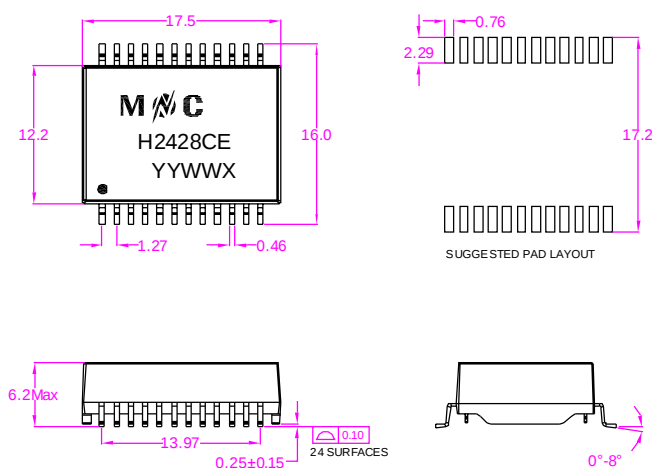
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: -40 °C to +85 °C.



Electrical Specifications @25°C

Part Number	OCL(μH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-30MHz	30.1-60MHz	60.1-80MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
H2428CE	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12	-35	-33+20*log(f/50)	-30	1500

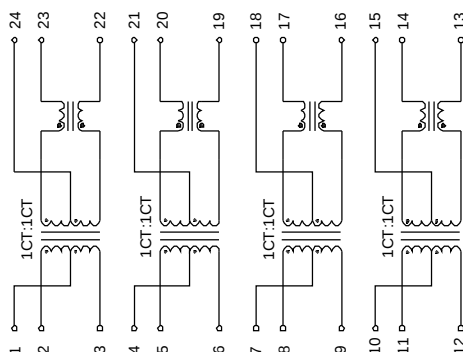
MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS

H2428CE



H2428CE

Weight.....1.58 grams
Reel.....400 pcs

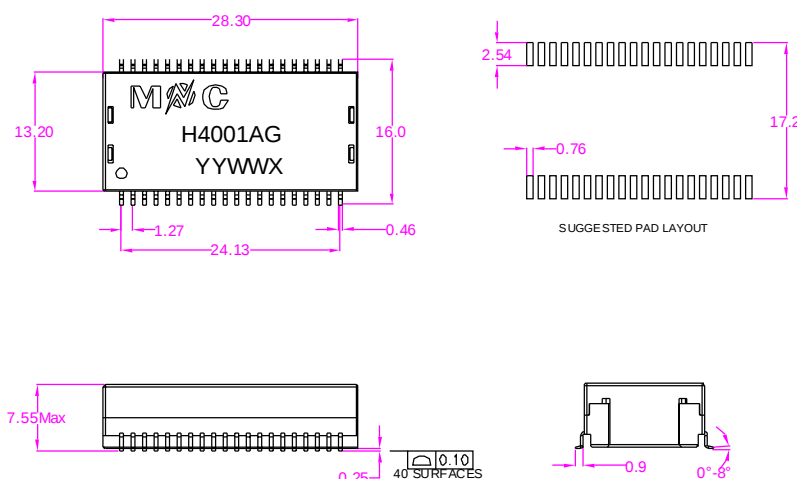
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Assembly Header.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25°C

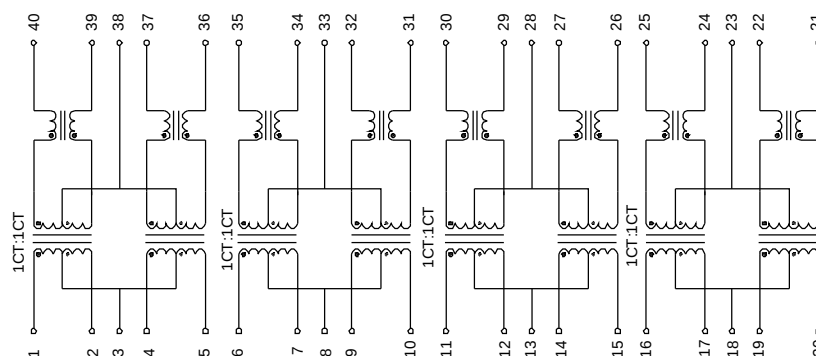
Part Number	OCL(μH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-30MHz	30.1-60MHz	60.1-80MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
H4001AG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12	-35	-33+20*log(f/50)	-30	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



H4001AG

Weight.....3.17 grams
Reel.....300 pcs

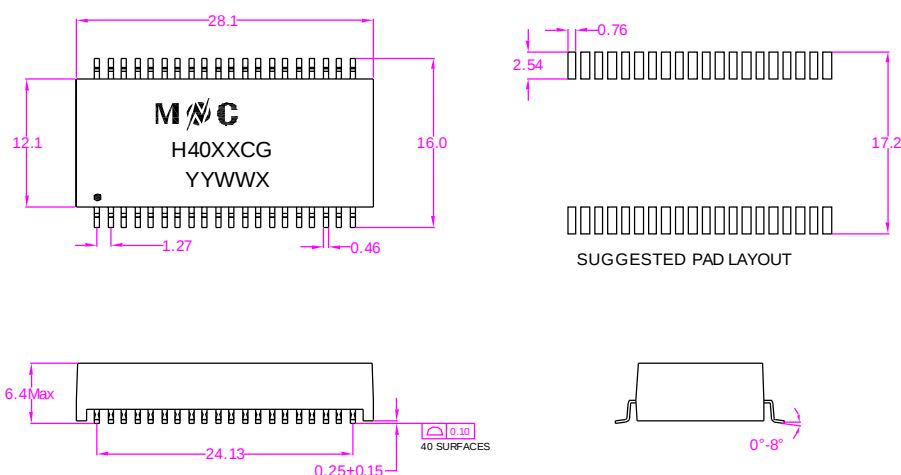
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25°C

Part Number	OCL(uH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-30MHz	30.1-60MHz	60.1-80MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
H4001CG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-12	-35	-33+20*log(f/50)	-30	1500

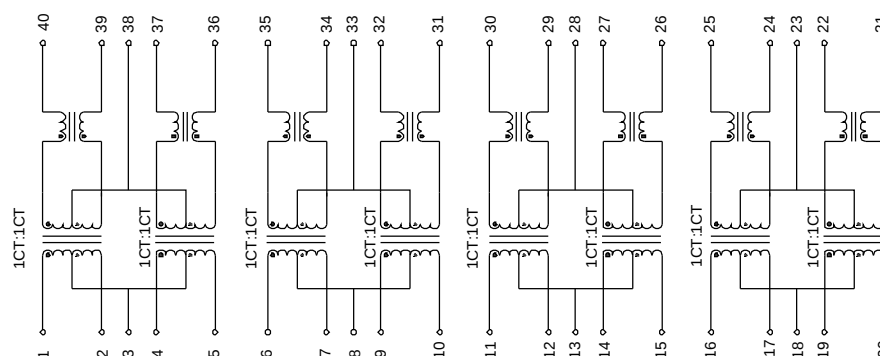
MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS

H4001CG



H4001CG

Weight.....2.3 grams
Reel.....400 pcs

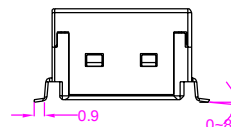
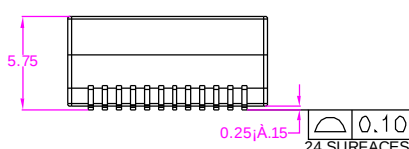
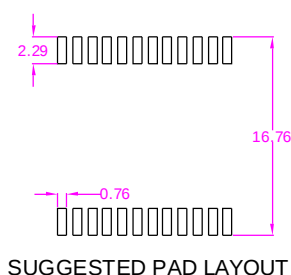
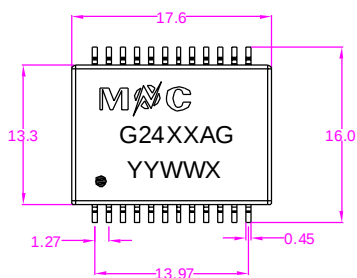
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Assembly Header.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25°C

Part Number	OCL(uH) 100KHz, 0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
			0.5-100MHz	0.5-40MHz	10.1-100MHz		0.5-40MHz	40.1-100MHz		
G2405AG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)		-35	-33+20*log(f/50)	-30	1500
G2497AG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)		-35	-33+20*log(f/50)	-30	1500

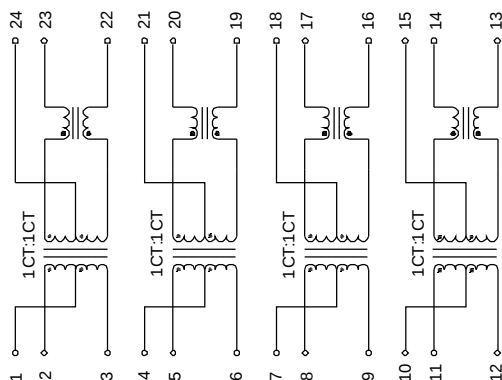
MECHANICAL



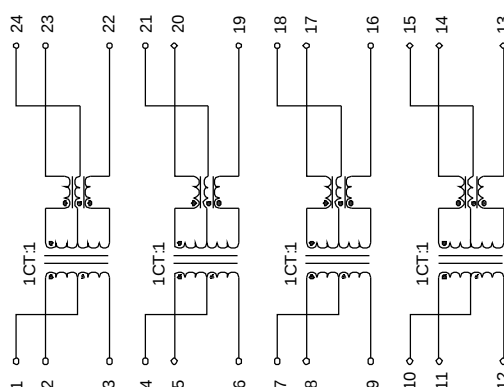
Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS

G2405AG



G2497AG



G2405AG

Weight.....1.55 grams
Reel.....400 pcs

G2497AG

Weight.....1.66 grams
Reel.....400 pcs

- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.

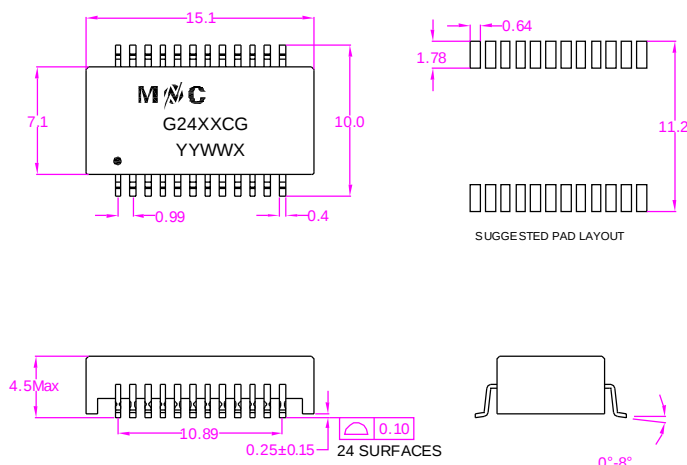


Electrical Specifications @25°C

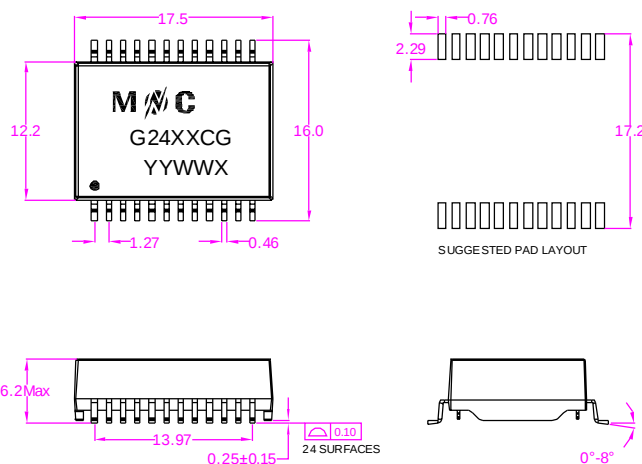
Part Number	OCL(μH) 100KHz, 0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G2401CG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500
G2405CG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500
G2497CG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

MECHANICAL

G2401CG



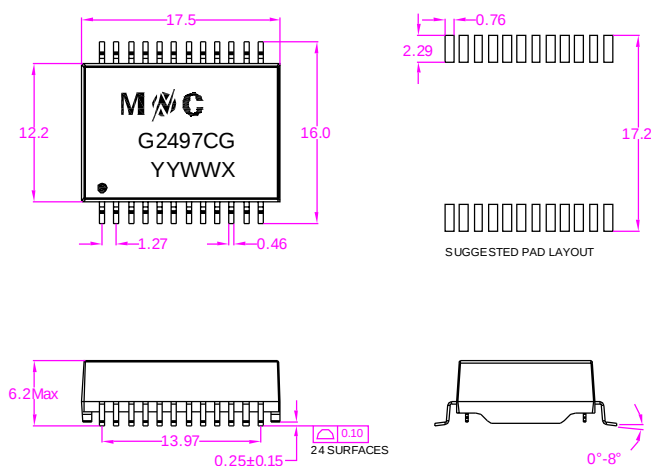
G2405CG



Unless otherwise specified all tolerances are: ±0.25 in mm

MECHANICAL

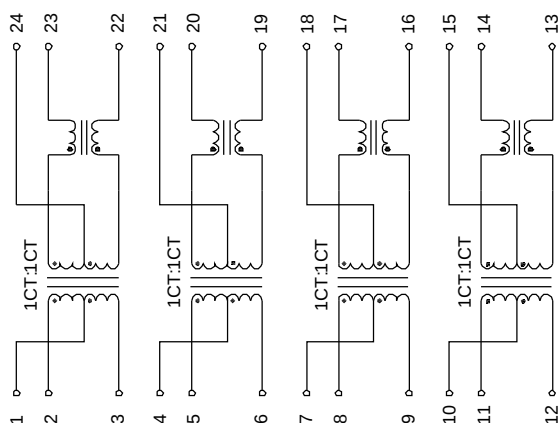
G2497CG



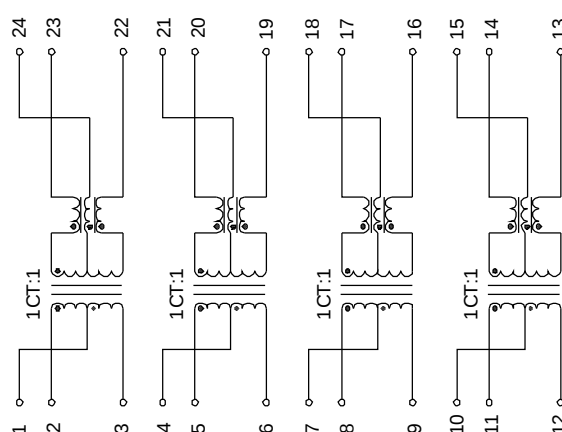
Unless otherwise specified all tolerances are:±0.25 in mm

SCHEMATICS

G2401CG,G2405CG



G2497CG



G2401CG

Weight.....0.68 grams
Reel.....850 pcs

G2405CG

Weight.....1.50 grams
Reel.....400 pcs

G2497CG

Weight.....1.69 grams
Reel.....400 pcs

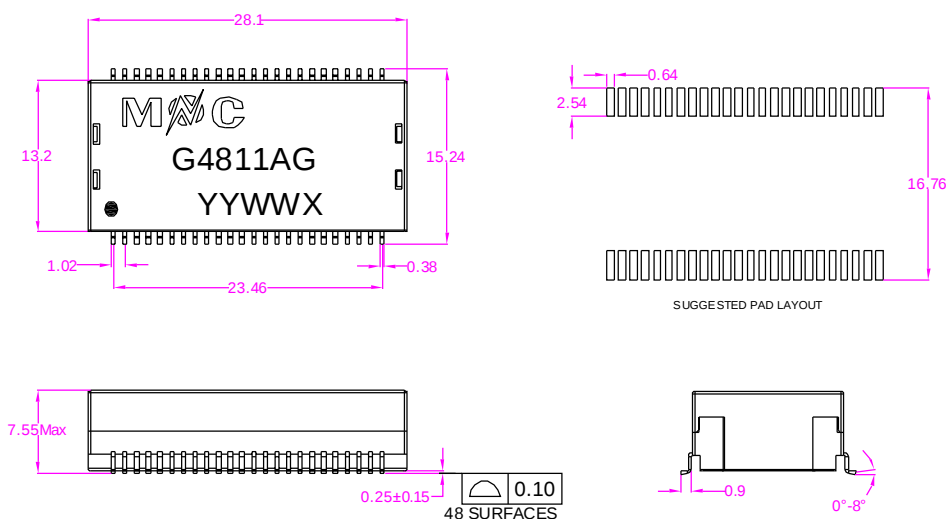
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Assembly Header.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25°C

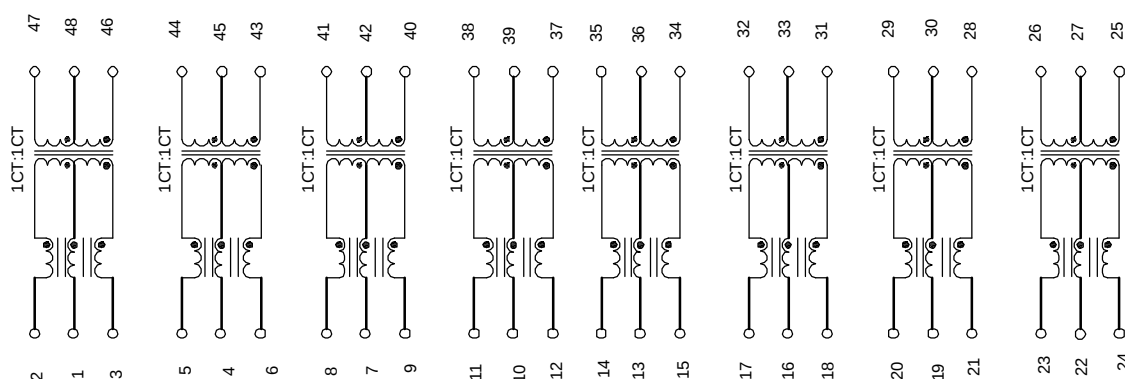
Part Number	OCL(uH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G4811AG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



G4811AG

Weight.....3.30 grams
Reel.....300 pcs

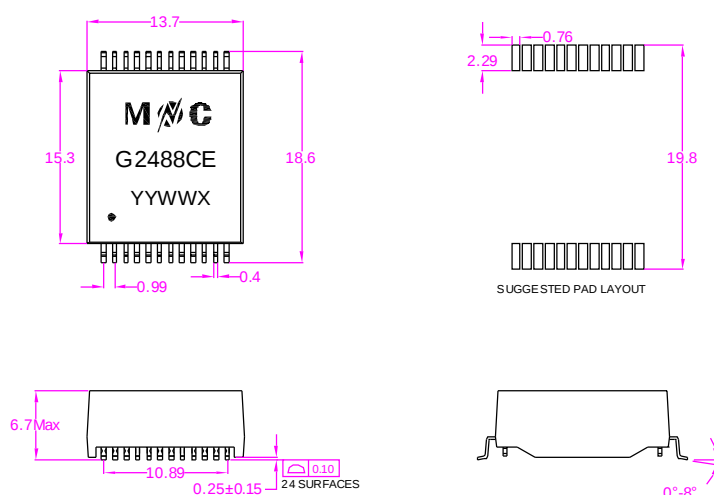
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: -40 °C to +85 °C.



Electrical Specifications @25°C

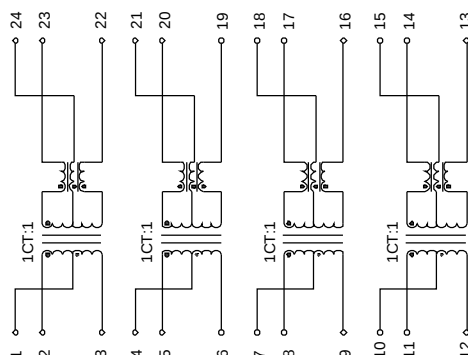
Part Number	OCL(μH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G2488CE	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



G2488CE

Weight.....1.60 grams
Reel.....400 pcs

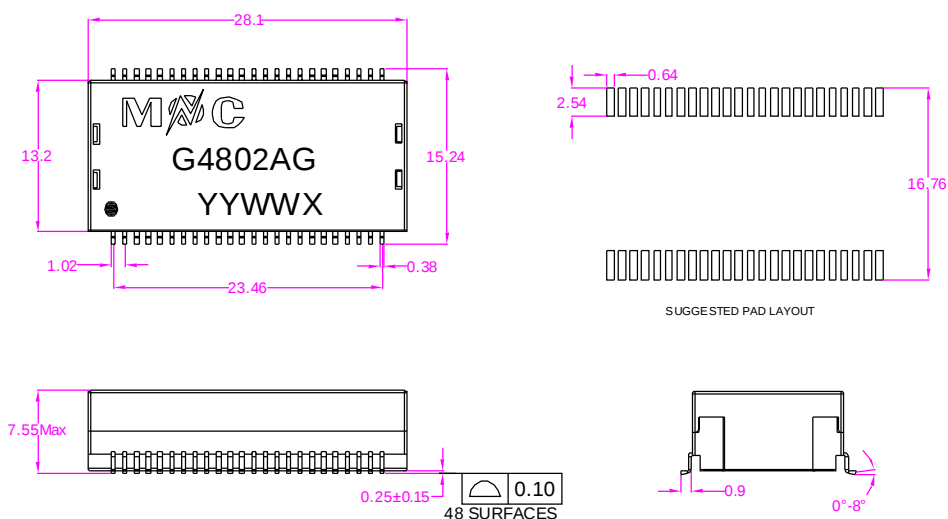
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Assembly Header.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25°C

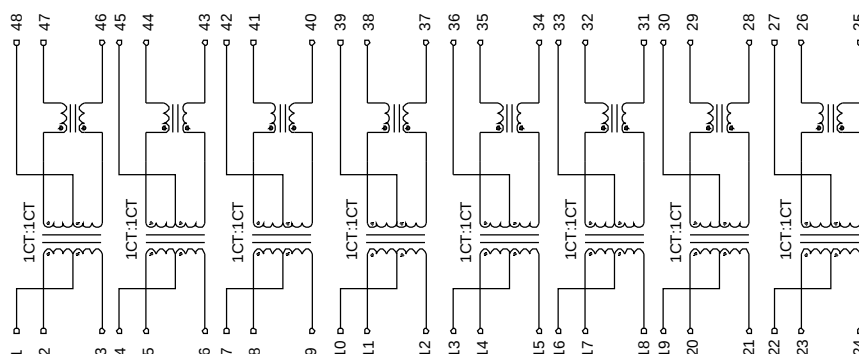
Part Number	OCL(uH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G4802AG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



G4802AG

Weight.....3.10 grams
Reel.....300 pcs

- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.

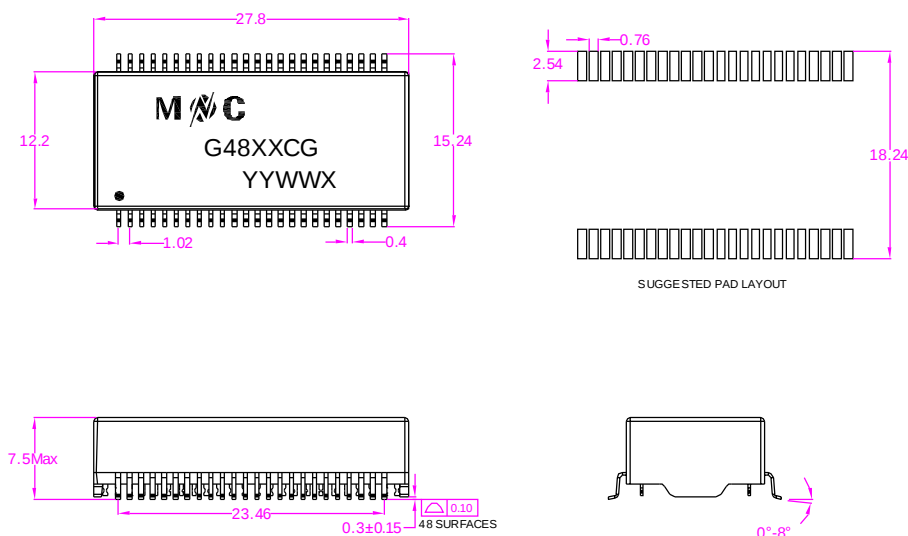


Electrical Specifications @25°C

Part Number	OCL(μH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G4802CG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500
G4812CG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

MECHANICAL

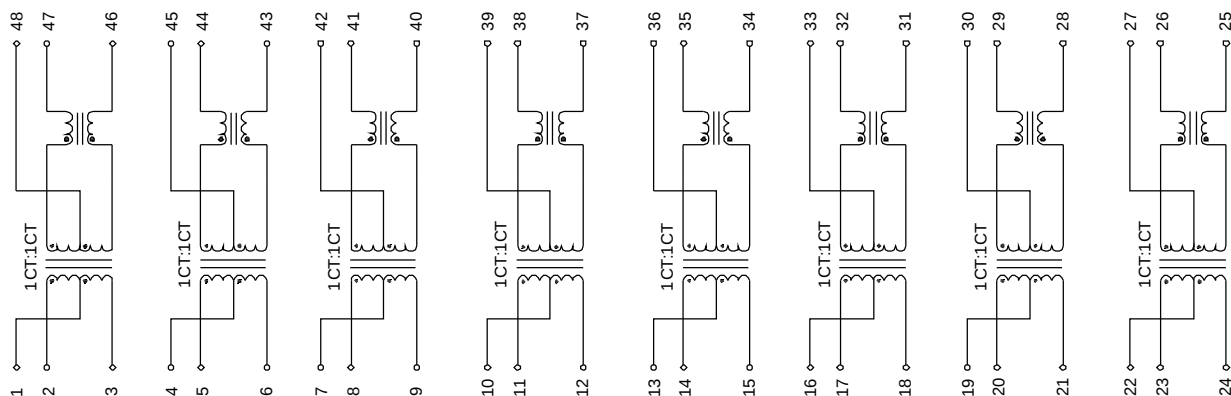
G4802CG , G4812CG



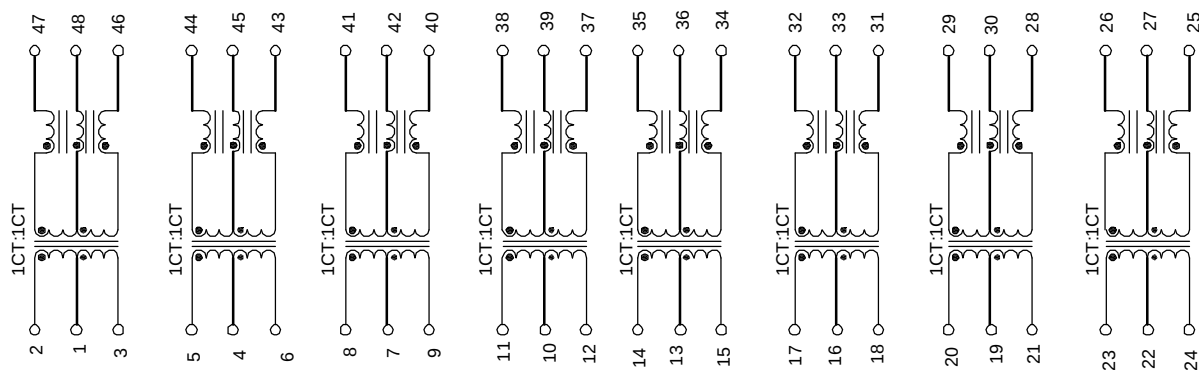
Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS

G4802CG



G4812CG



G4802CG

Weight.....3.28 grams
Reel.....300 pcs

G4812CG

Weight.....3.04 grams
Reel.....300 pcs

- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.

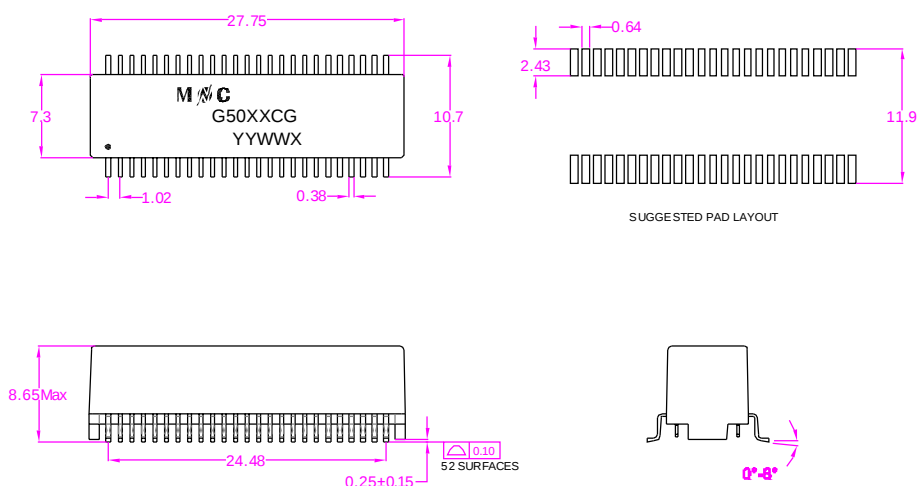


Electrical Specifications @25°C

Part Number	OCL(uH) 100KHz,0.1Vrms, With 8mA DC Bias	Turns Ratio (±5%)	Insertion Loss (dB Max)	Return Loss (dB Min)		Cross talk (dB Min)		CMRR (dB Min)	HI-POT (Vrms)
	0.5-100MHz		0.5-40MHz	10.1-100MHz	0.5-40MHz	40.1-100MHz	0.5-100MHz		
G5002CG	350uH	1CT:1CT	-1.1	-18	-18+20*log(f/30)	-35	-33+20*log(f/50)	-30	1500

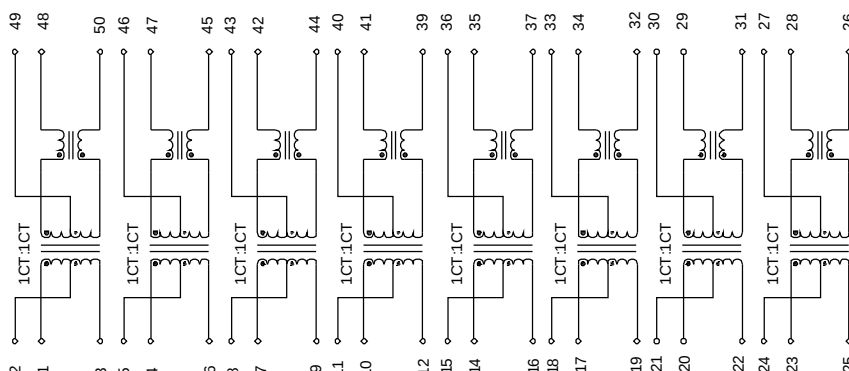
MECHANICAL

G5002CG



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



G5002CG

Weight.....2.58 grams
Reel.....450 pcs

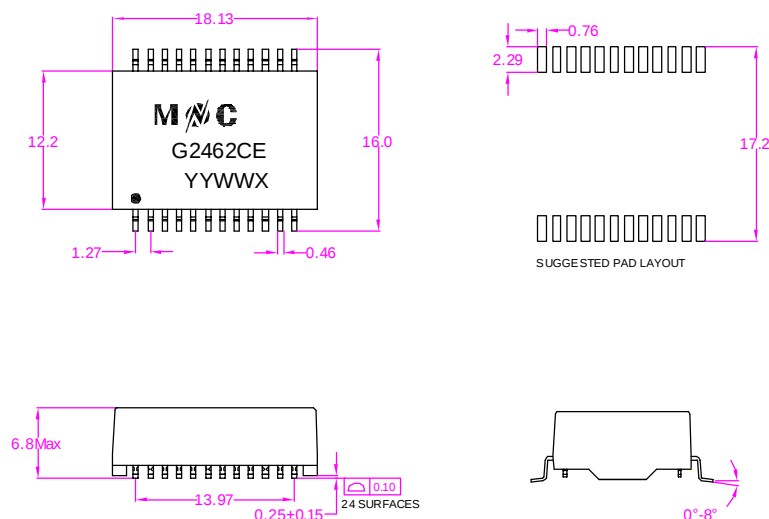
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 720mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: -40 °C to +85 °C.



Electrical Specifications @25 °C

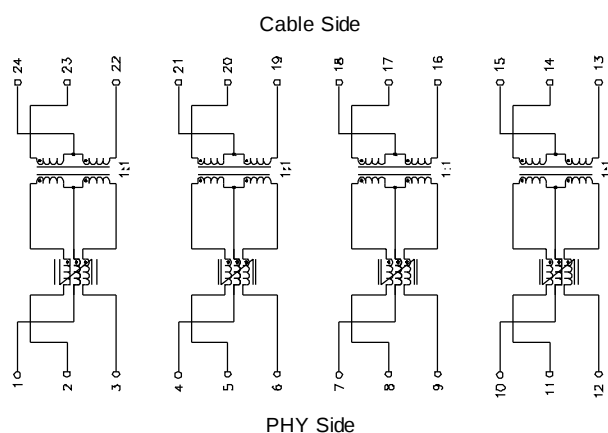
Part Number	OCL(uH Min) @100KHz, 0.1V With 21mA DC Bias@25°C	Return Loss (dB Min) (Z OUT = 100 OHM ±15%)		Cross talk (dB Min)		REJECTION RATIO COMMON MODE (dB Min)	
		1-40MHz	40.1-100MHz	1MHz	10-100MHz	2MHz	30-200MHz
G2462CE	350	-16	-10+20*log(f/80)	-50	-55+22*log(f/10)	-50	-15+20*log(f/200)
	Continue						
	OCL(uH Min) @100KHz, 0.1V With 21mA DC Bias@-40°C&+85°C	Turns Ratio (±2%)	Insertion Loss (dB Max)		DC RESISTANCE BALANCE	C _{ww} (pF TYP)	HI-POT (Vrms)
	300	1CT:1CT	-1.2	-0.2-0.002f ^{1.4}	±.05 OHMS Max	1MHz	1500

MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

SCHEMATICS



G2462CE

Weight.....2.31 grams
Reel.....400 pcs

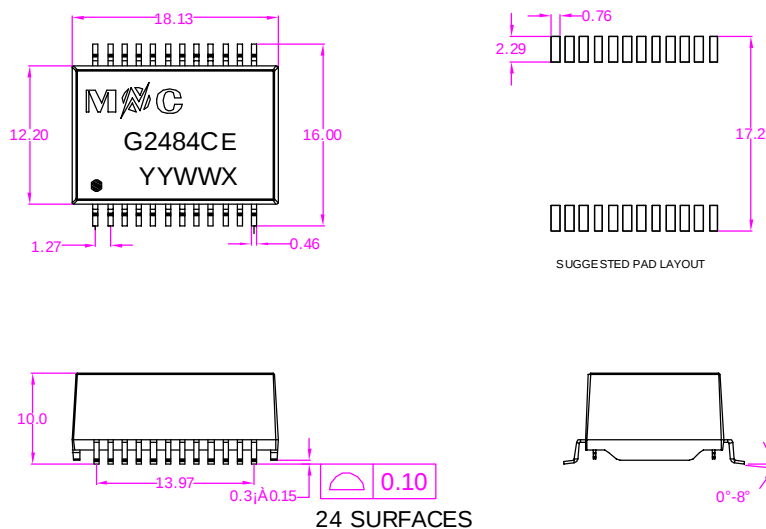
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 850mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: -40 °C to +85 °C.



Electrical Specifications @25 °C

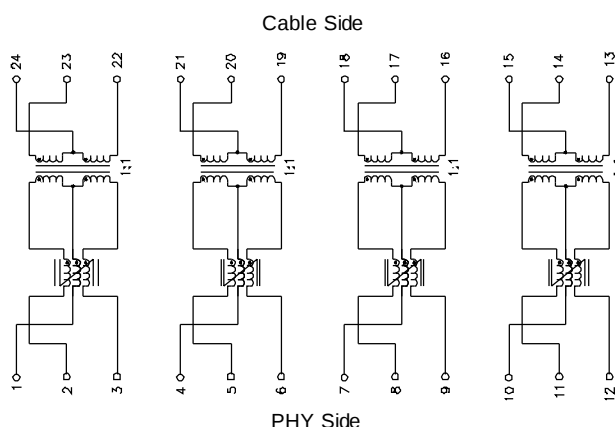
Part Number	OCL(uH Min) @100KHz, 0.1V With 25mA DC Bias@25°C	Return Loss (dB Min) (Z OUT = 100 OHM ±15%)		Cross talk (dB Min)		REJECTION RATIO COMMON MODE (dB Min)	
		1-40MHz	40.1-100MHz	1MHz	10-100MHz	2MHz	30-200MHz
G2484CE	350	-16	-10+20*log(f/80)	-50	-55+22*log(f/10)	-50	-15+20*log(f/200)
	Continue						
	OCL(uH Min) @100KHz, 0.1V With 25mA DC Bias@-40°C&+85°C	Turns Ratio (±2%)	Insertion Loss (dB Max)		DC RESISTANCE BALANCE	Cww (pF TYP)	HI-POT (Vrms)
	300	1CT:1CT	-1.2	-0.2-0.002f ^{1.4}	±.05 OHMS Max	1MHz	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



G2484CE

Weight.....2.95 grams
Reel.....200 pcs

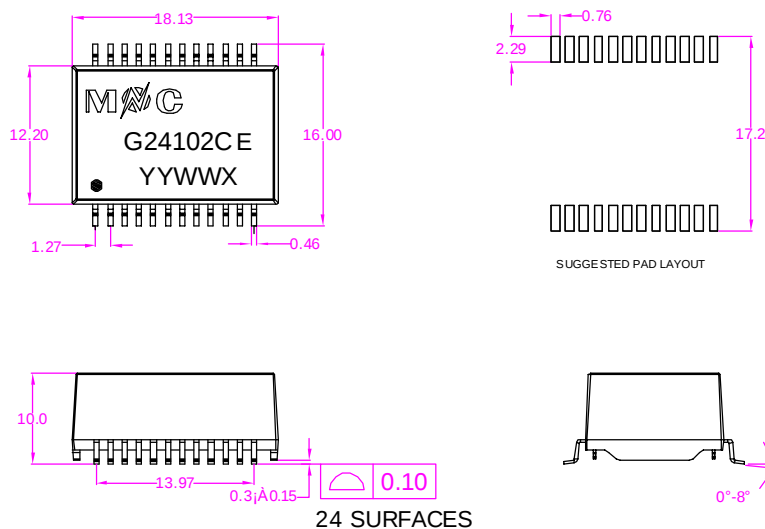
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 1150mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: -40 °C to +85 °C.



Electrical Specifications @25 °C

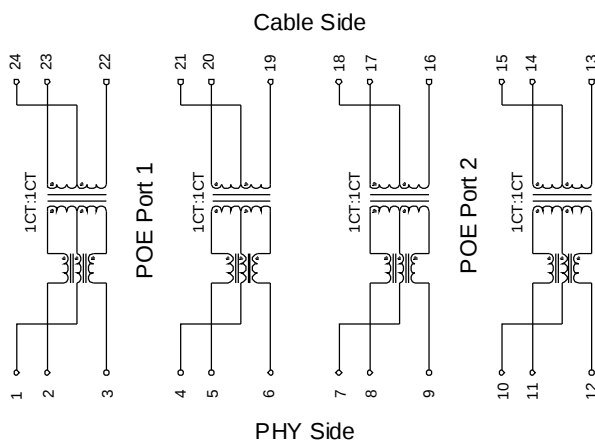
Part Number	OCL(uH Min) @ 100KHz, 0.1V With 25mA DC Bias @ -40°C & +85°C	Return Loss (dB Min) (Z OUT = 100 OHM ±15%)		Cross talk (dB Min)		REJECTION RATIO COMMON MODE (dB Min)	
		1-40MHz	40.1-100MHz	1MHz	10-100MHz	2MHz	30-200MHz
G24102CE	350	-16	-10+20*log(f/80)	-50	-55+22*log(f/10)	-50	-15+20*log(f/200)
	Continue						
	OCL(uH Min) @ 100KHz, 0.1V With 35mA DC Bias @ -40°C & +85°C	Turns Ratio (±2%)	Insertion Loss (dB Max)		DC RESISTANCE BALANCE	C _{ww} (pF TYP)	HI-POT (Vrms)
			100KHz	1-125MHz	±.05 OHMS Max	1MHz	
	135	1CT:1CT	-1.2	-0.2-0.002f ^{1.4}	CENTER TAP SYMMETRY	25	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



G24102CE

Weight.....3.20 grams
Reel.....200 pcs

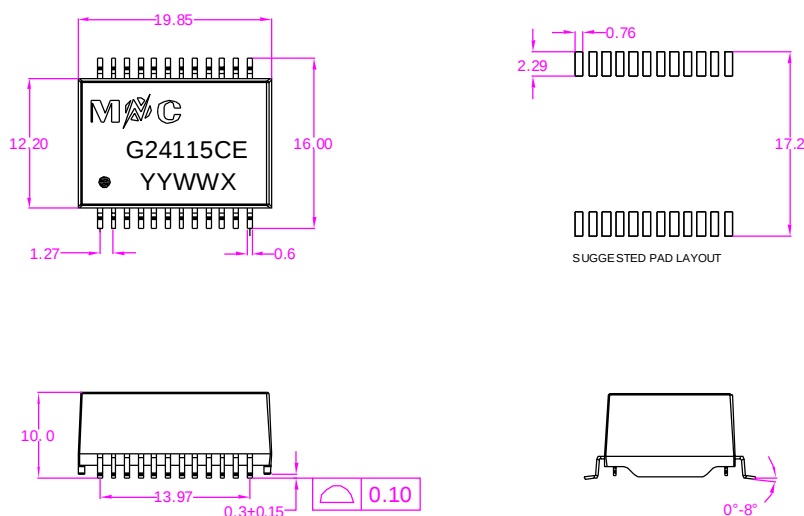
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 1500mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: -40 °C to +85 °C.



Electrical Specifications @25 °C

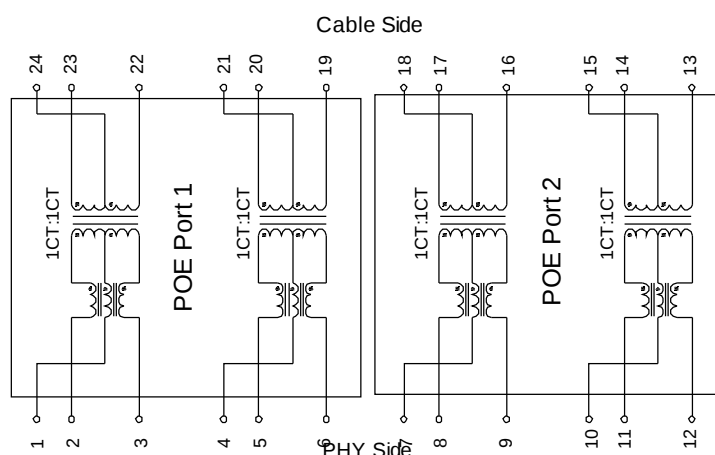
Part Number	OCL(uH Min) @100KHz, 0.1V With 45mA DC Bias@-40°C&+85°C	Return Loss (dB Min) (Z OUT = 100 OHM ±15%)		Cross talk (dB Min)		REJECTION RATIO COMMON MODE (dB Min)	
		1-40MHz	40.1-100MHz	1MHz	10-100MHz	2MHz	30-200MHz
G24115CE	200	-16	-10+20*log(f/80)	-50	-55+22*log(f/10)	-50	-15+20*log(f/200)
	Continue						
	Turns Ratio (±2%)	Insertion Loss (dB Max)		DC RESISTANCE BALANCE		C _{ww} (pF TYP)	HI-POT (Vrms)
		100KHz	1-125MHz	±.05 OHMS Max		1MHz	
	1CT:1CT	-1.2	-0.2-0.002*f ^{1.4}	CENTER TAP SYMMETRY		25	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



G24115CE

Weight.....3.44 grams
Reel.....200 pcs

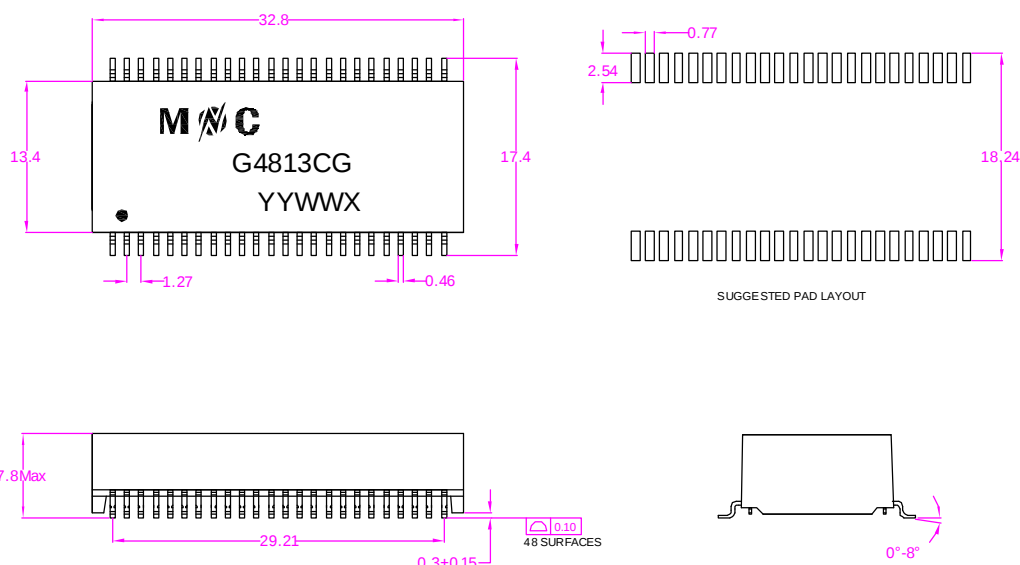
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 720mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25 °C

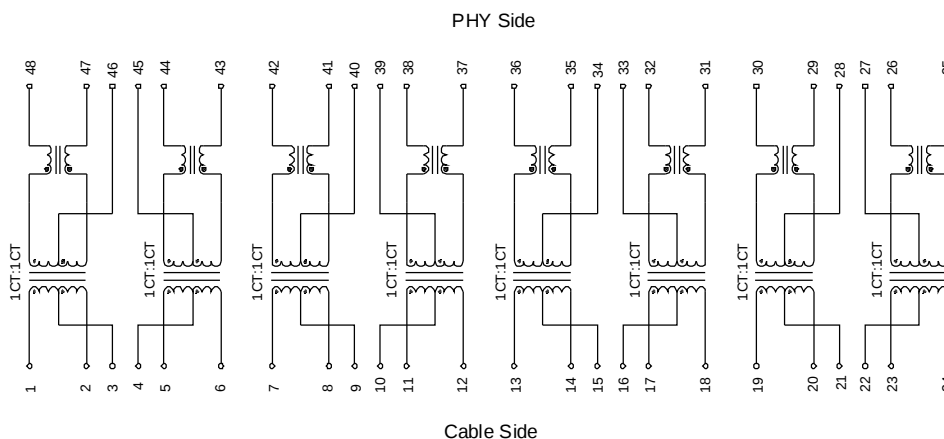
Part Number	OCL(uH Min) @100KHz, 0.1V With 21mA DC Bias@25°C	Return Loss (dB Min) (Z OUT = 100 OHM ±15%)		Cross talk (dB Min)		REJECTION RATIO COMMON MODE (dB Min)	
		1-40MHz	40.1-100MHz	1MHz	10-100MHz	2MHz	30-200MHz
G4813CG	350	-16	-10+20*log(f/80)	-50	-55+22*log(f/10)	-50	-15+20*log(f/200)
	Continue						
	Turns Ratio (±2%)	Insertion Loss (dB Max)		DC RESISTANCE BALANCE		Cww (pF TYP)	HI-POT (Vrms)
		100KHz	1-125MHz	±.05 OHMS Max		1MHz	
	1CT:1CT	-1.2	-0.2-0.002*f ^{1.4}	CENTER TAP SYMMETRY		25	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



G4813CG

Weight.....4.20 grams
Reel.....250 pcs

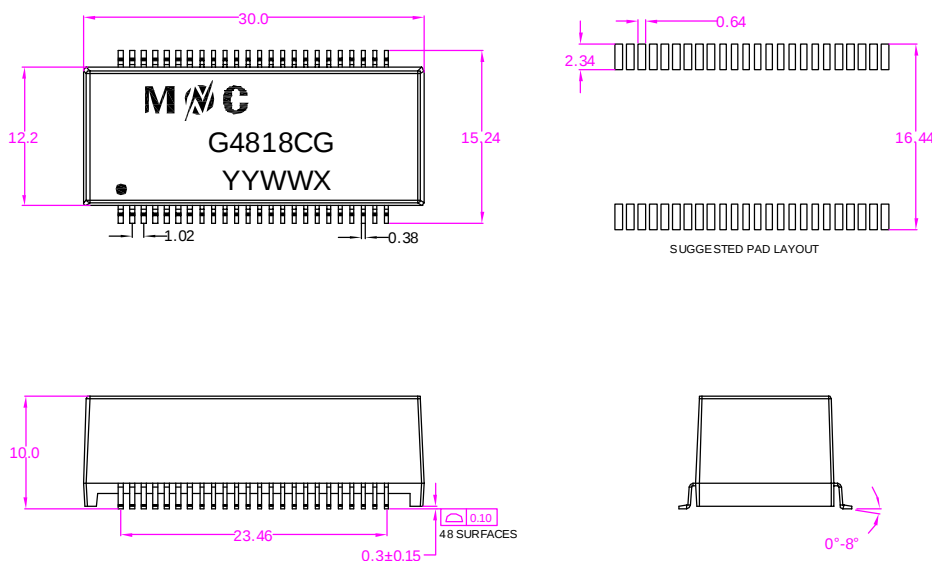
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 720mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25 °C

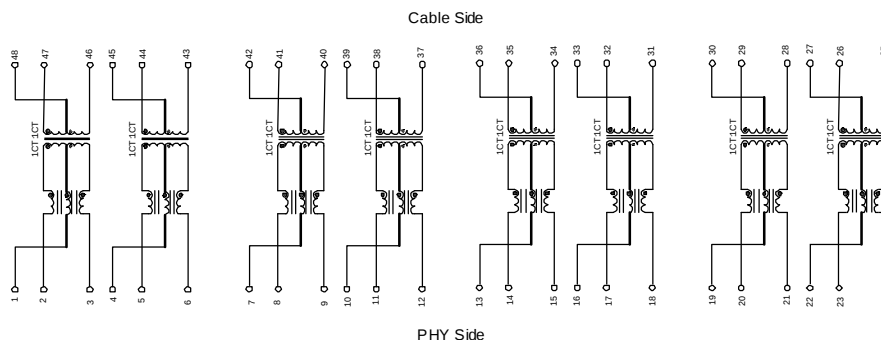
Part Number	OCL(uH Min) @100KHz, 0.1V With 21mA DC Bias@25°C	Return Loss (dB Min) (Z OUT = 100 OHM ±15%)		Cross talk (dB Min)		REJECTION RATIO COMMON MODE (dB Min)	
		1-40MHz	40.1-100MHz	1MHz	10-100MHz	2MHz	30-200MHz
G4818CG	350	-16	-10+20*log(f/80)	-50	-55+22*log(f/10)	-50	-15+20*log(f/200)
	Continue						
	Turns Ratio (±2%)	Insertion Loss (dB Max)		DC RESISTANCE BALANCE		C _{ww} (pF TYP)	HI-POT (Vrms)
		100KHz	1-125MHz	±.05 OHMS Max		1MHz	
	1CT:1CT	-1.2	-0.2-0.002*f ^{1.4}	CENTER TAP SYMMETRY		25	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



G4818CG

Weight.....5.28 grams
Reel.....180 pcs

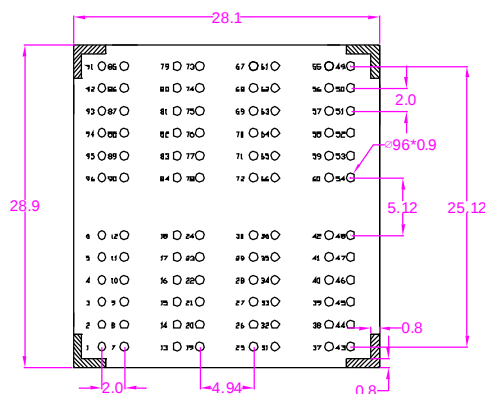
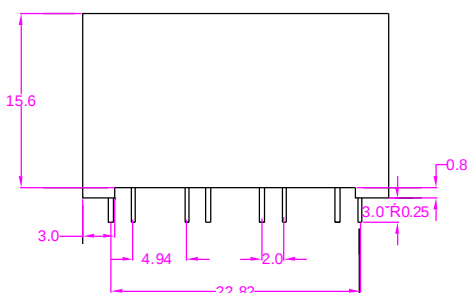
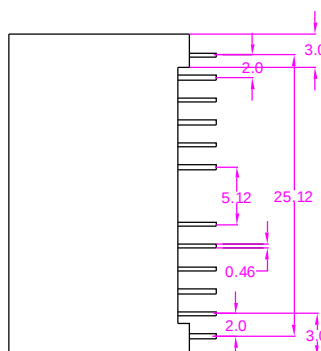
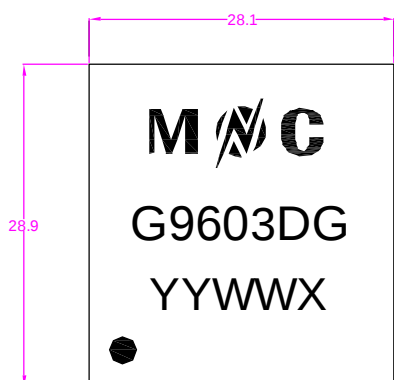
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 100/1000 Base-T, Through -Hole Type.
- 700mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25 °C

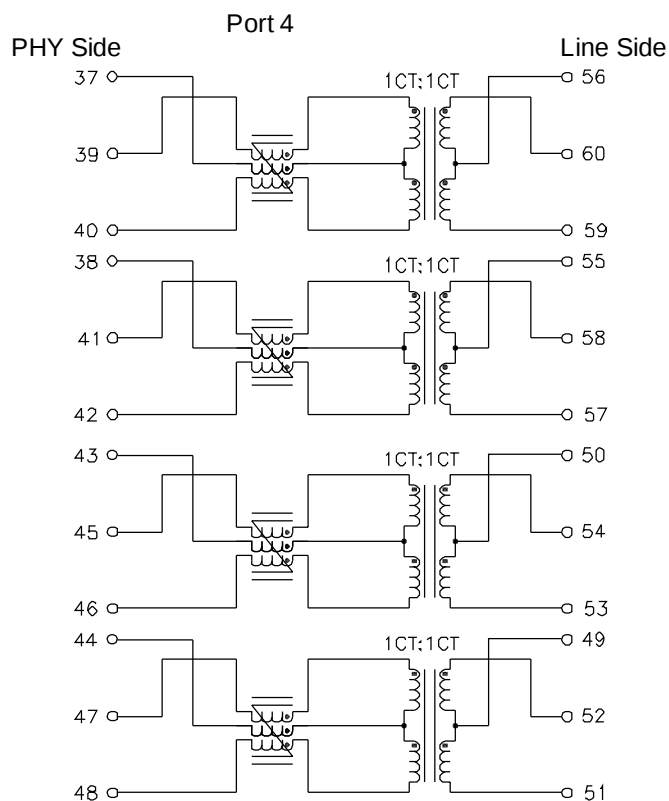
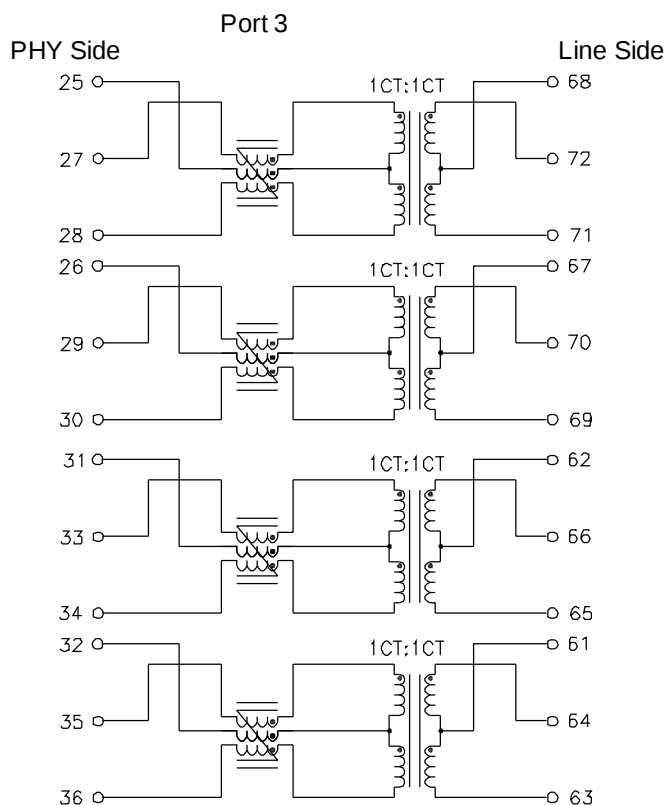
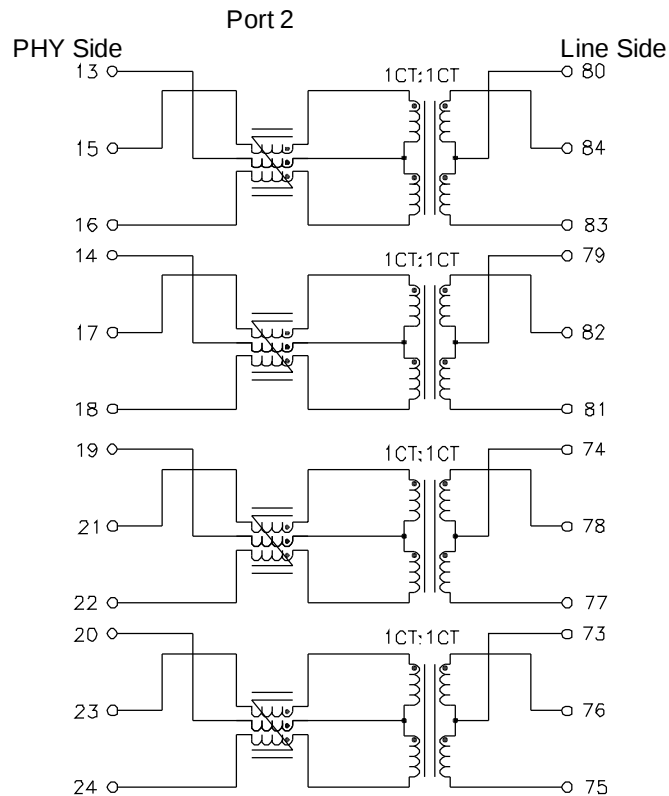
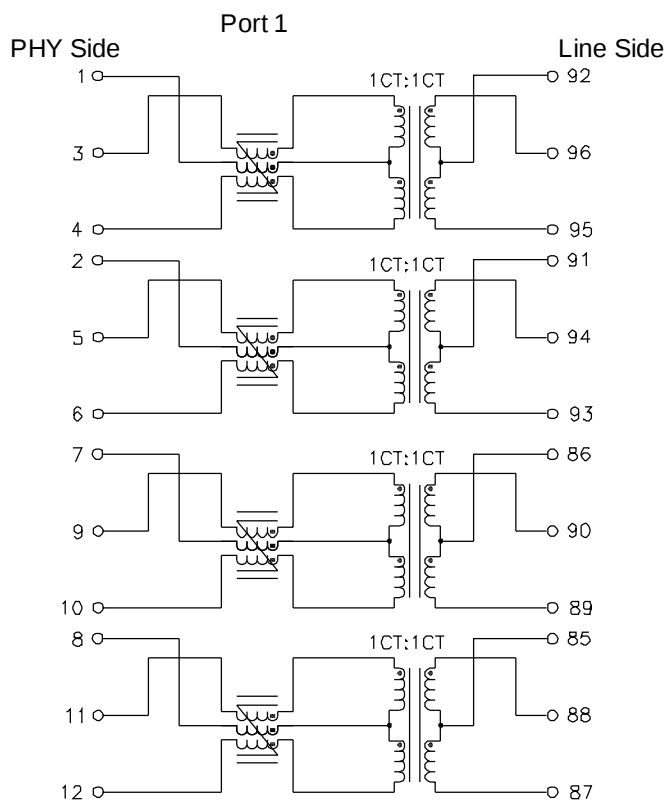
Part Number	OCL(uH Min) @100KHz, 0.1V With 25mA DC Bias@25°C	Return Loss (dB Min) (Z OUT = 100 OHM ±15%)		Cross talk (dB Min)		REJECTION RATIO COMMON MODE (dB Min)	
		1-40MHz	40.1-100MHz	1MHz	10-100MHz	2MHz	30-200MHz
G9603DG	350	-16	-10+20*log(f/80)	-50	-55+22*log(f/10)	-50	-15+20*log(f/200)
	Continue						
	Turns Ratio (±2%)	Insertion Loss (dB Max)		DC RESISTANCE BALANCE		Cww (pF TYP)	HI-POT (Vrms)
		100KHz	1-125MHz	±.05 OHMS Max		1MHz	
	1CT:1CT	-1.2	-0.2-0.002*f^1.4	CENTER TAP SYMMETRY		25	1500

MECHANICAL



NO COMPONENT AREA.
Suggested Customer PCB Layout
(Component Side)

SCHEMATICS



G9603DG

Weight.....17.16 grams
Tube.....17 pcs
Small Carton.....170 pcs
Big Carton.....680 pcs

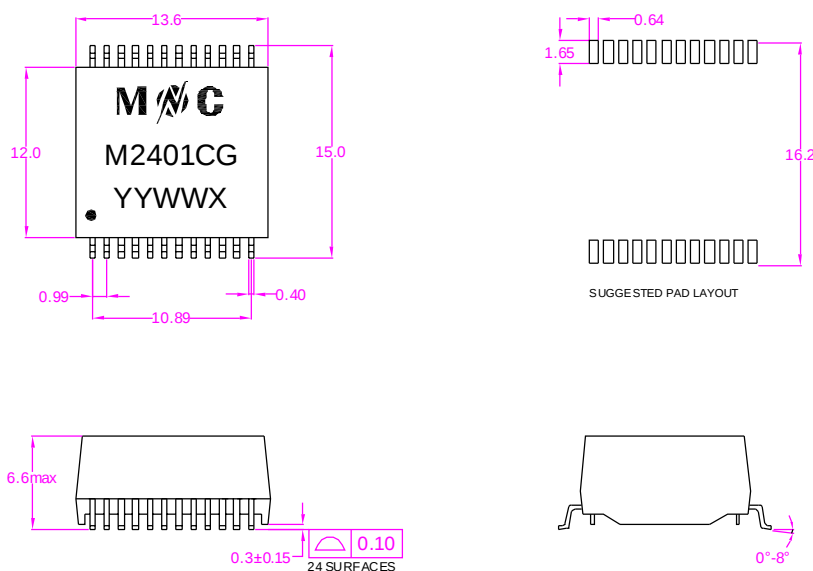
- Meets IEEE 802.3an Standards.
- RoHS Compliant.
- 10G Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25°C

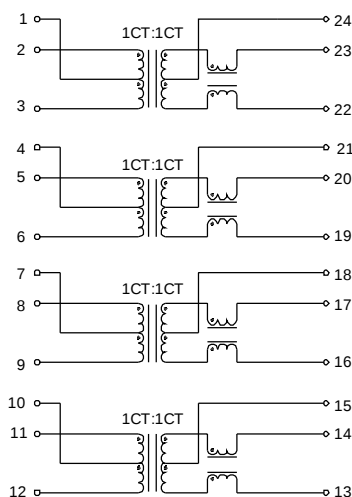
Part Number	OCL (uH Min) @ 100KHz, 0.1V	Turns Ratio (±5%)	Insertion Loss (Max)			Return Loss (Min)		Common to Differential Mode Rejection (Min)		Cross talk (Min)		Hi-Pot (Vrms)
			100KHz	1-400MHz	500MHz	1-40MHz	40-500MHz	1-250MHz	250-500MHz	1-100MHz	100-500MHz	
M2401CG	120uH (Typ)	1CT:1CT	-3.0	-1.5	-3.0	-18	-17+10*log(f/40)	-30	-22	-40	-30	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



M2401CG

Weight.....1.67 grams
Reel.....350 pcs

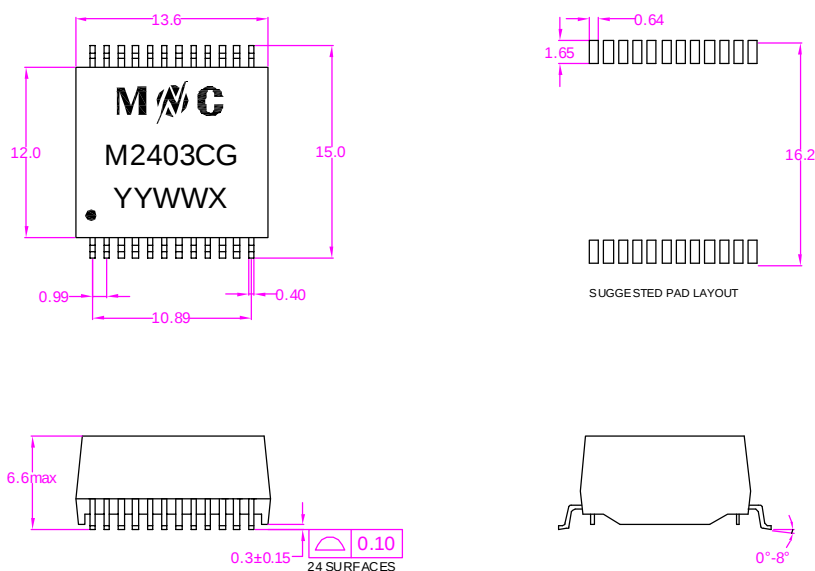
- Meets IEEE 802.3an Standards.
- RoHS Compliant.
- 10G Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25°C

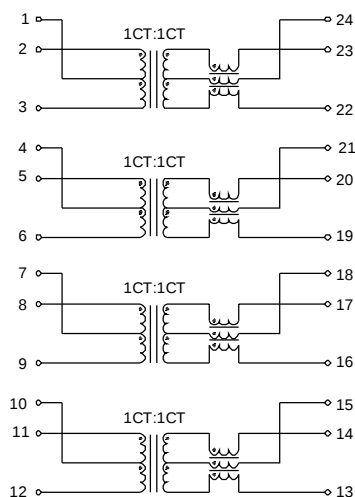
Part Number	OCL (uH Min) @ 100KHz, 0.1V	Turns Ratio (±5%)	Insertion Loss (Max)			Return Loss (Min)		Common to Differential Mode Rejection (Min)		Cross talk (Min)		Hi-Pot (Vrms)
			100KHz	1-400MHz	500MHz	1-40MHz	40-500MHz	1-250MHz	250-500MHz	1-100MHz	100-500MHz	
M2403CG	120uH (Typ)	1CT:1CT	-3.0	-1.5	-3.0	-18	-17+10*log(f/40)	-30	-22	-40	-30	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



M2403CG

Weight.....1.64 grams
Reel.....350 pcs

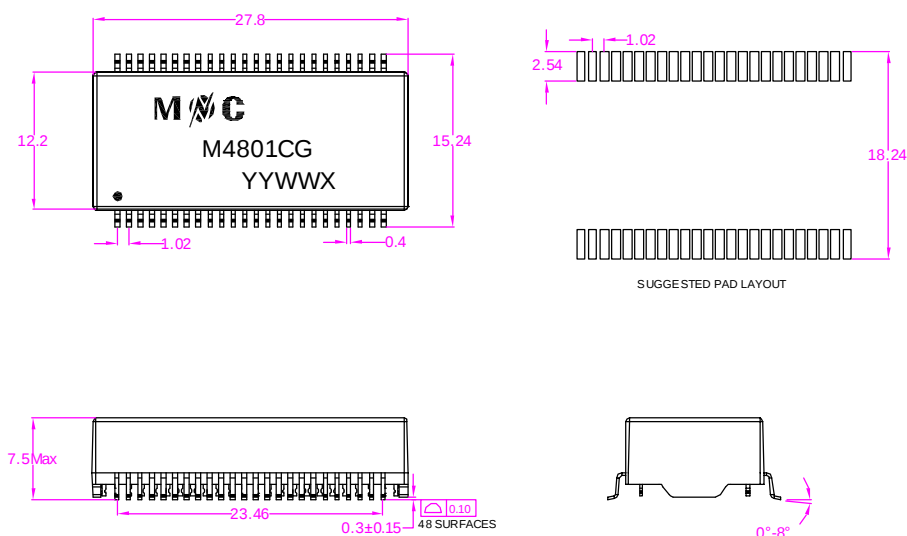
- Meets IEEE 802.3an Standards.
- RoHS Compliant.
- 10G Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.



Electrical Specifications @25°C

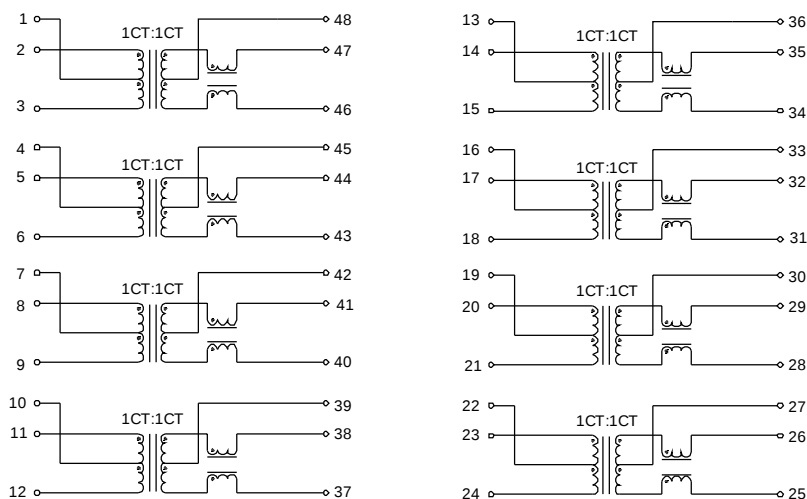
Part Number	OCL (uH Min) @ 100KHz, 0.1V	Turns Ratio (±5%)	Insertion Loss (Max)			Return Loss (Min)		Common to Differential Mode Rejection (Min)		Cross talk (Min)		Hi-Pot (Vrms)
			100KHz	1-400MHz	500MHz	1-40MHz	40-500MHz	1-250MHz	250-500MHz	1-100MHz	100-500MHz	
M4801CG	120uH (Typ)	1CT:1CT	-3.0	-15	-3.0	-18	-17+10*log(f/40)	-30	-22	-40	-30	1500

MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS



M4801CG

Weight.....3.20 grams
Reel.....300 pcs

- Octal SMT Package contains both transmit and receive transformers
- Models matched to leading transceivers
- RoHS Compliance
- Operating temperature range: 0 °C to +70 °C.

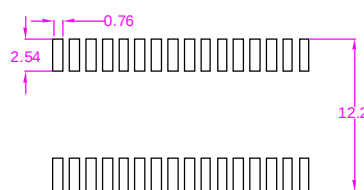
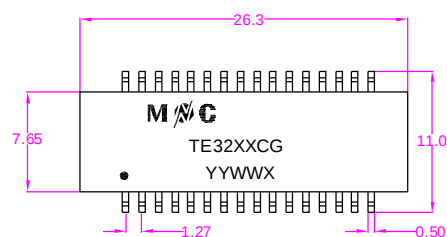


Electrical Specifications @25°C

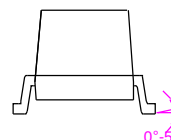
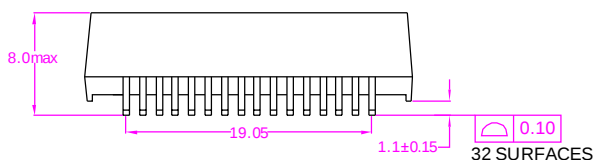
Part Number	OCL (mH Min) @ 10KHz, 0.1V	Turns Ratio (±2%)	LL (uH MAX)	C _{ww} (pF MAX)	DCR (Ω MAX)	Primary Pins		Hi-Pot (Vrms)
		Pri:Sec	100KHz, 0.2V	100KHz, 0.2V	Pri	Transmit	Receive	
TE3202CG	1.2	1:2	0.6&0.6	30&30	1.2	1-2,5-6,9-10,13-14	3-4,7-8,11-12,15-16	1500

MECHANICAL

TE3202CG



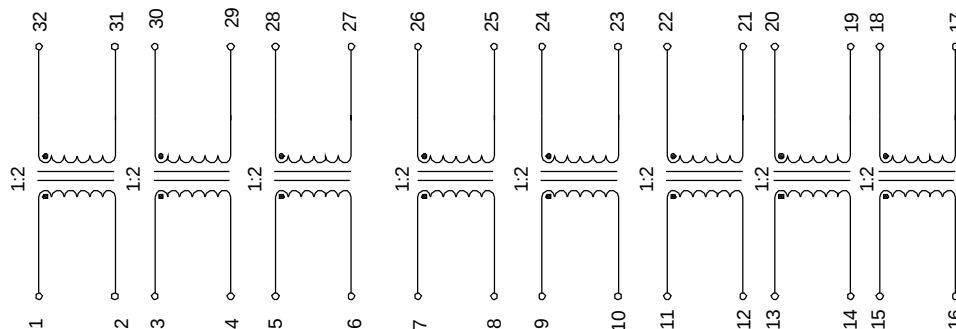
SUGGESTED PAD LAYOUT



Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS

TE3202CG



TE3202CG

Weight.....2.5 grams
Reel.....500 pcs

- Octal SMT Package contains both transmit and receive transformers
- Models matched to leading transceivers
- RoHS Compliance
- Operating temperature range: 0 °C to +70 °C.

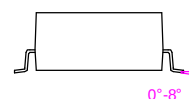
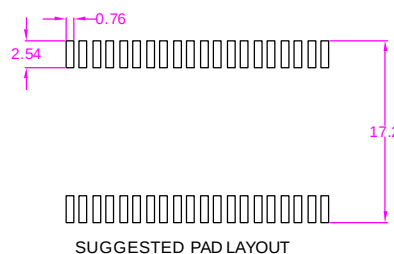
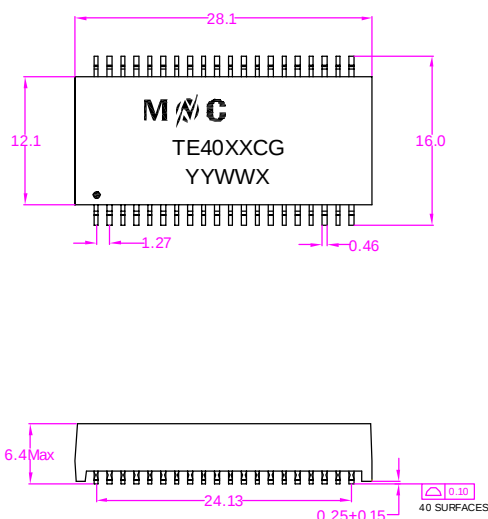


Electrical Specifications @25°C

Part Number	OCL (mH Min) @ 10KHz, 0.1V	Turns Ratio (±2%)	LL (uH MAX)	C _{ww} (pF MAX)	DCR (Ω MAX)	Primary Pins		Hi-Pot (Vrms)
		Pri:Sec	100KHz, 0.2V	100KHz, 0.2V	Pri	Transmit	Receive	
TE4001CG	1.2&1.2	1:2CT	0.8&0.8	35&35	0.8	4-5, 9-10, 14-15, 19-20	24-25, 29-30, 34-35, 39-40	1500
TE4008CG	1.2&1.2	1CT:2&1:2CT	0.6&0.6	35&35	1.2	4-5, 9-10, 14-15, 19-20	1-3, 6-8, 11-13, 16-18	1500
TE4016CG	1.2&1.2	1:2.4&1:1	0.5&0.5	35&35	1.5	1-2, 8-9, 11-12, 18-19	3-4, 6-7, 13-14, 16-17	1500
TE4027CG	1.2	1:1.266	0.7 & 0.7	35&35	1.2	1-2, 6-7, 11-12, 16-17	3-4, 8-9, 13-14, 18-19	1500

MECHANICAL

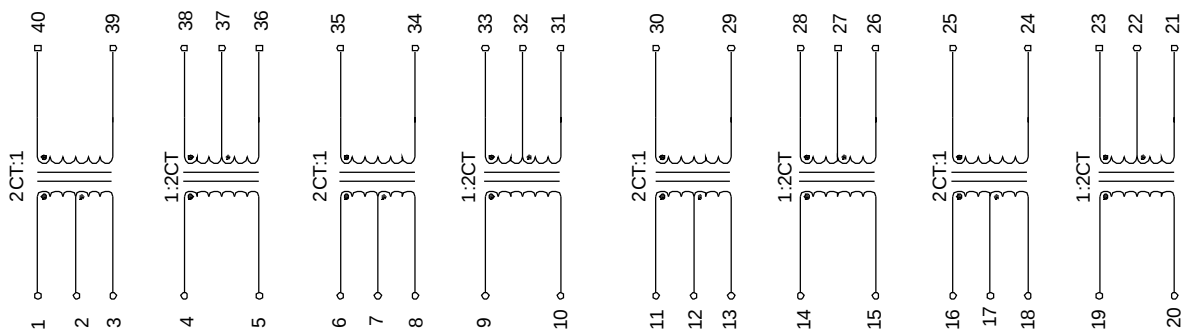
TE4001CG, TE4008CG, TE4016CG, TE4027CG



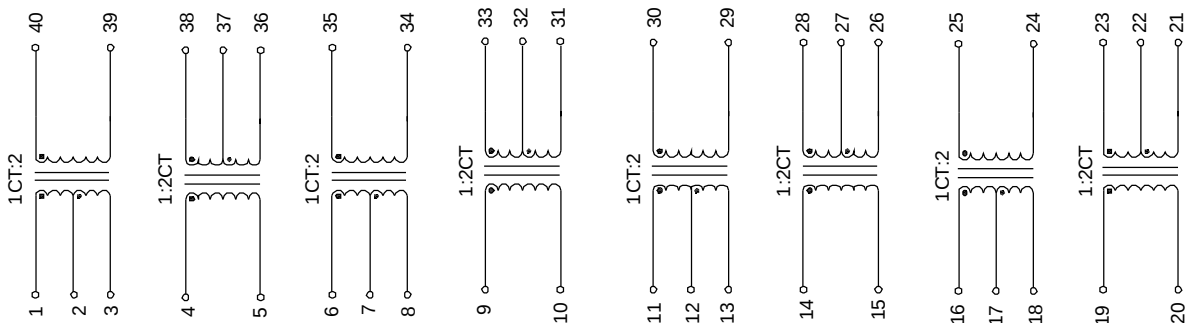
Unless otherwise specified all tolerances are: ±0.25 in mm

SCHEMATICS

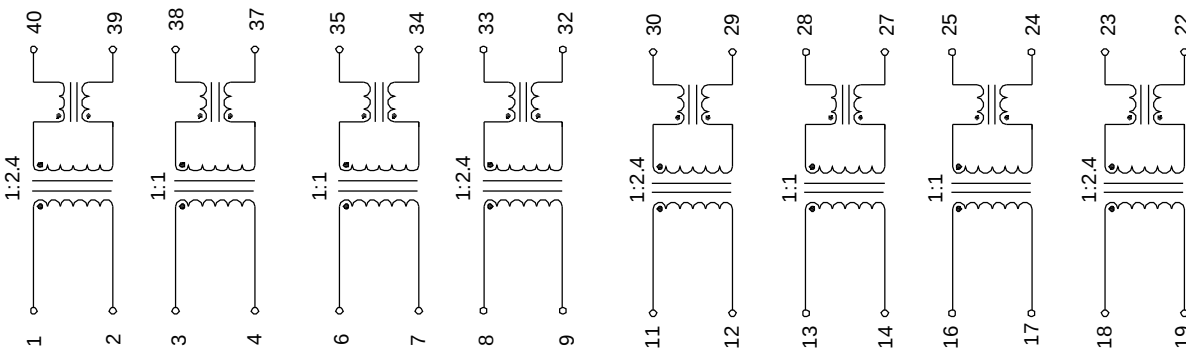
TE4001CG



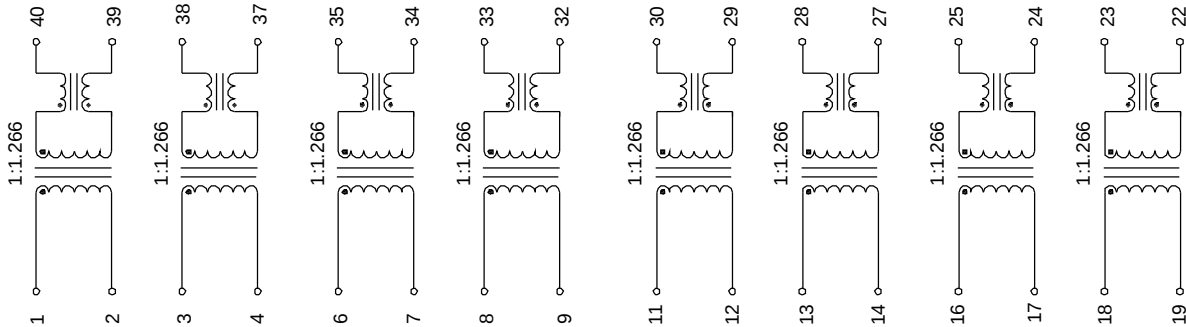
TE4008CG



TE4016CG



TE4027CG



TE4001CG

Weight.....2.81 grams
Reel.....400 pcs

TE4008CG

Weight.....2.80 grams
Reel.....400 pcs

TE4016CG

Weight.....2.45 grams
Reel.....400 pcs

TE4027CG

Weight.....2.44 grams
Reel.....400 pcs