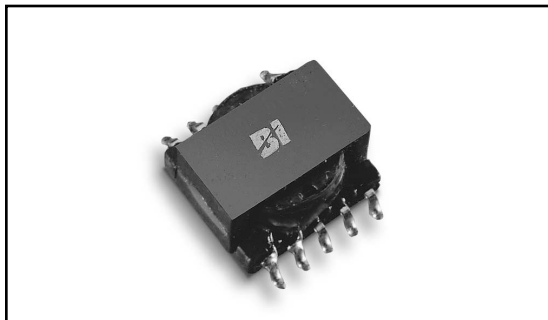


MODEL HM80 SERIES

ISDN Isolation Transformer

NEW PRODUCT



FEATURES AND BENEFITS

- Excellent frequency behavior
- Isolation voltage levels available for domestic and international safety standard
- Designed to meet the CCITT 1.430 pulse waveform template and impedance mask requirements
- Matched to IC characteristics for easy selection

APPLICATIONS

- Isolation transformers for ISDN networks, U-interface and S/ T interface
- Provides isolation for the line card and the terminal from the line

ELECTRICAL / ENVIRONMENTAL

Insulation Resistance, Minimum	100 Megohms
Operating Temperature Range	0°C to +85°C
Storage Temperature Range	-40°C to +100°C

PACKAGING

Standard: Tray Pack

Capacity:	Figure 1, 2	=	100
	Figure 3, 7, 8, 9, 14	=	45
	Figure 4	=	80
	Figure 5, 13	=	60
	Figure 6, 12	=	50

Option: Tape & 13" Reel

Capacity:	Figure 10	=	600
	Figure 11	=	300

Specifications subject to change without notice.

ELECTRICAL SPECIFICATIONS

Part Number	I _{DC} mA	Turns Ratio Pri:Sec	L _p mH	L _L μH	R _p Ω	R _s Ω	HIPOT V RMS	Fig.
HM80 - 10001	—	1 ct:1 ct	22	10	2.8	2.8	1500	1
HM80 - 20014	—	1 ct:1.32 ct	7	17	0.9	1.5	1100	14
HM80 - 30008	30	1.5 cs	12.3	27.5	6.8	12.4	1100	8
HM80 - 40010	60	0.6 cs	2.7	85	4.9	3.8	500	10
HM80 - 50004	—	1 ct:1.8 ct	22	20	2.8	5.5	1500	4
HM80 - 60002	—	1 cs:2 cs	22	18	2.2	5.4	1500	2
HM80 - 70004	—	1 ct:2 ct	20	30	1.4	13	1500	4
HM80 - 80005	—	1 ct:2 ct	20	30	1.4	13	1500	5
HM80 - 90009	100	1 cs:2	11.5	30	3.5	13.4	2000	9
HM80 - 10011	—	1 ct:2 ct	22	30	3.5	15	1500	11
HM80 - 11004	—	1 ct:2.5 ct	22	20	2.0	6.5	1500	4
HM80 - 12007	—	1.25:1 cs	72	160	8.5	1.0	1100	7
HM80 - 13006	60	1.32 cs:1	7.9	50	1.8	2.5	2000	6
HM80 - 14003	90	1.5 cs:1 cs	27	150	10.7	7.4	2000	3
HM80 - 15013	60	1.6 cs:1 cs	13.3	70	4.9	5.9	2000	13
HM80 - 16012	60	2 cs:1 ct	22.5	90	5.8	1.5	1100	12
HM80 - 17006	60	1.6 cs:1	14.5	90	3.2	3.3	2000	6
HM80 - 18007	80	1.25 cs:1 ct	27.8	470	12	7	2000	7

Symbols: I_{DC} Maximum permissible DC current in the primary winding(s).
The primary winding is defined as the winding at the line side.

L_p Inductance of primary winding(s) (connected in series).

L_L Leakage inductance of primary winding(s) with secondary winding(s) short circuited.

R_p Resistance of primary winding(s) (connected in series).

R_s Resistance of secondary winding(s) (connected in series).

HIPOT Breakdown voltage between primary and secondary.

TRANSFORMER TO IC CROSS REFERENCE

IC Part Number	IC Manufacturer	BI Part Number	Interface
MC 145474 / 145475	Motorola	HM80 - 10001	S/T
PEB 2091	Siemens	HM80 - 20014	S/T
T 7264	AT&T	HM80 - 30008	U
TP 3410	National	HM80 - 30008	U
ST 5410	SGS Thomson	HM80 - 30008	U
PEB 2090	Siemens	HM80 - 40010	U
29C53	Intel	HM80 - 50004	S/T
PEB 2080 / 2081 / 2085 / 2086	Siemens	HM80 - 60002	S/T
AM 2080 / 2081 / 2085, AM 79C30A / 79C32A	AMD	HM80 - 70004	S/T
TP 3420 / 3421	National	HM80 - 80005	S/T
ST 5420	SGS Thomson	HM80 - 10011	S/T
MT 8930	Mitel	HM80 - 10011	S/T
MTC 2072	Mietec	HM80 - 10011	S/T
MT 8971 / 8972	Mitel	HM80 - 90009	U
29C53	Intel	HM80 - 11004	S/T
T 7250 / T 7252	AT&T	HM80 - 11004	S/T
T 7262 / T 7263	AT&T	HM80 - 12007	S/T
PEB 2090 / 2091	Siemens	HM80 - 13006	U
AM 20902 / AM 2091	AMD	HM80 - 13006	U
MTC 2071	Mietec	HM80 - 13006	U
TP 3410	National	HM80 - 14003	U
PEB 2090 / 2091	Siemens	HM80 - 15013	U
AM 20902 / 2091	AMD	HM80 - 15013	U
MC 145472 / 145572	Motorola	HM80 - 16012	U
MC 145572	Motorola	HM80 - 18007	U

OUTLINE DIMENSIONS (Inch/mm)

Figure 1

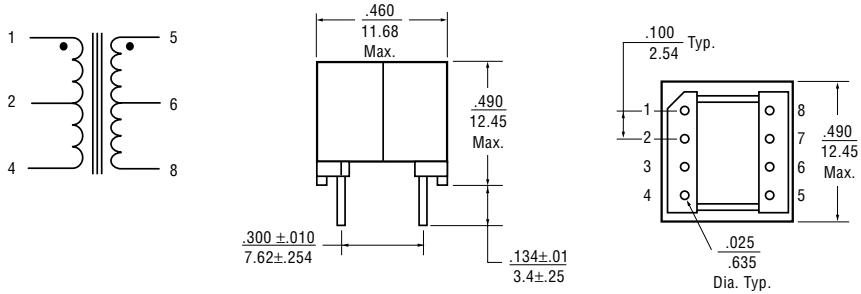


Figure 2

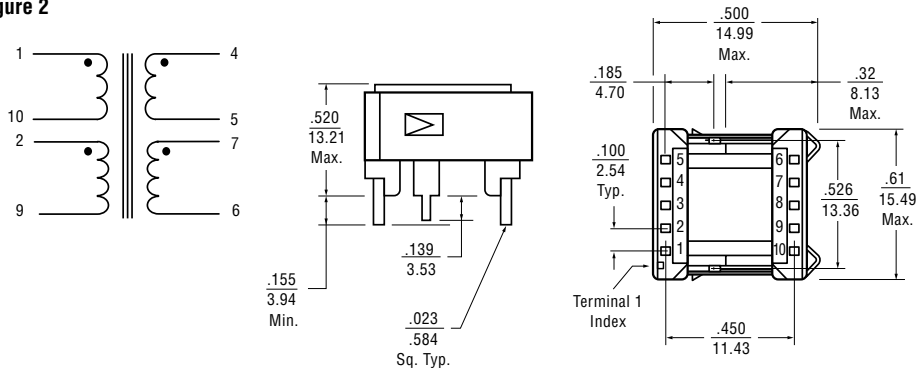
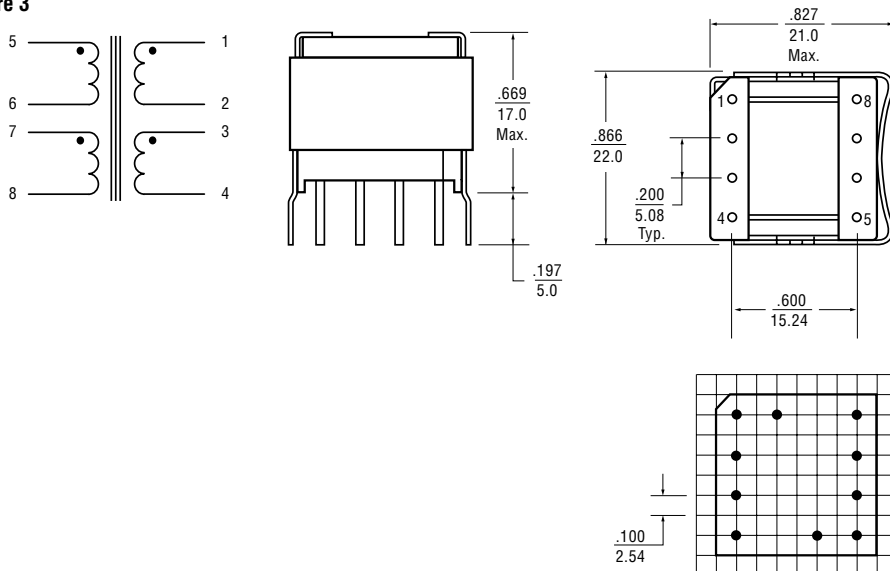


Figure 3



OUTLINE DIMENSIONS (Inch/mm)

Figure 4

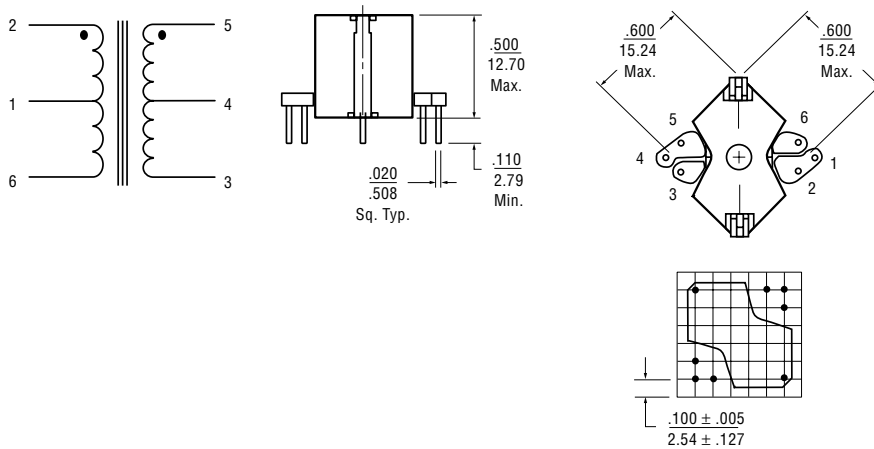
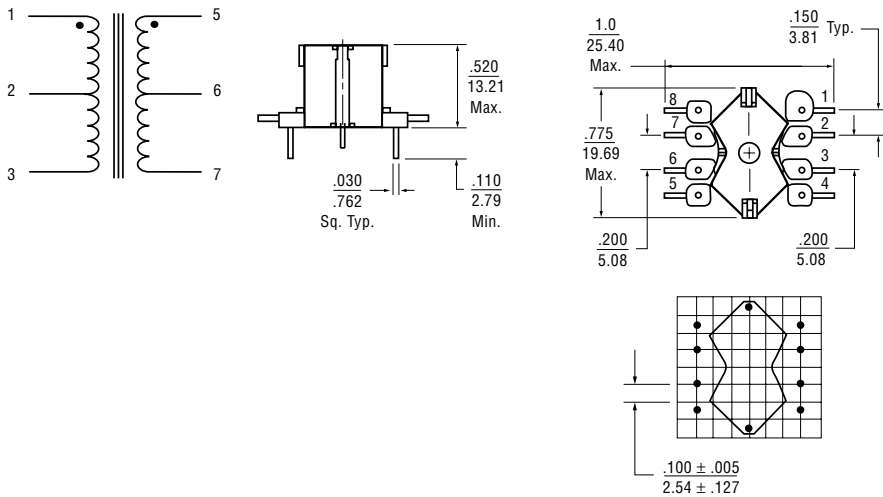


Figure 5



OUTLINE DIMENSIONS (Inch/mm)

Figure 6

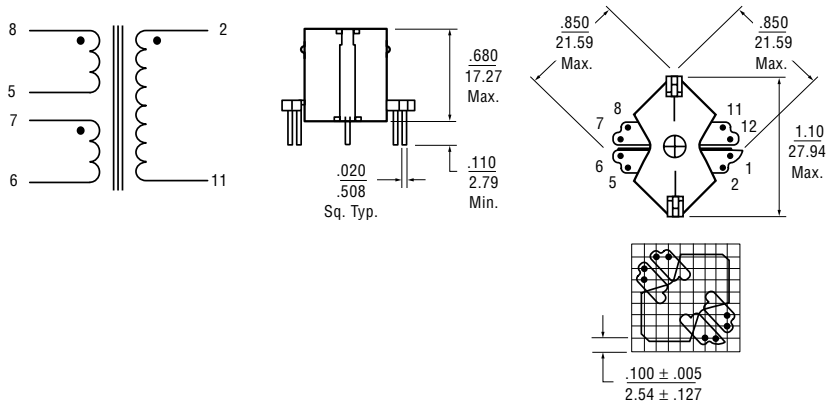


Figure 7

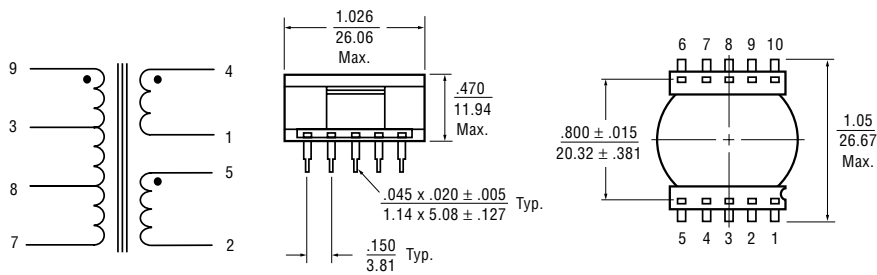
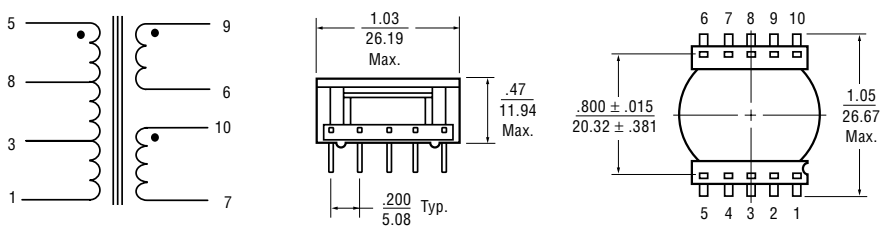


Figure 8



OUTLINE DIMENSIONS (Inch/mm)

Figure 9

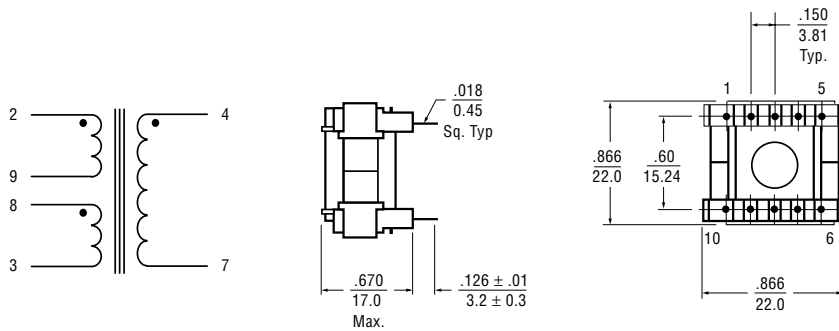


Figure 10

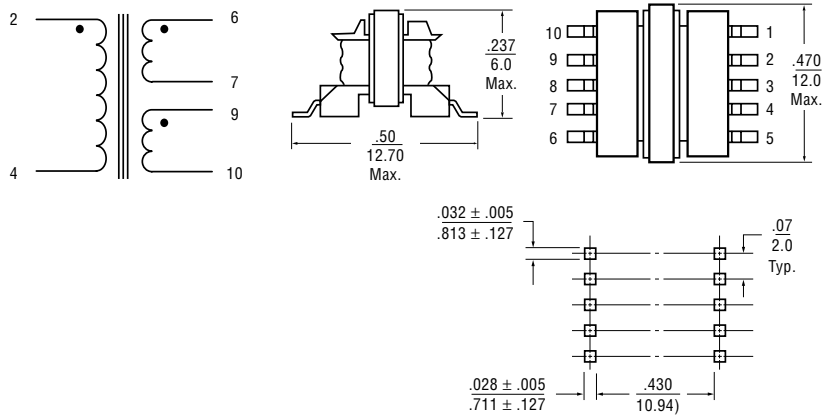
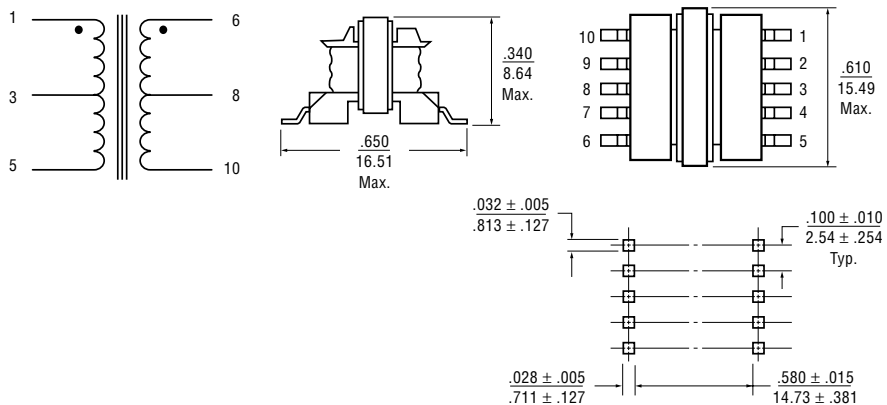


Figure 11



OUTLINE DIMENSIONS (Inch/mm)

Figure 12

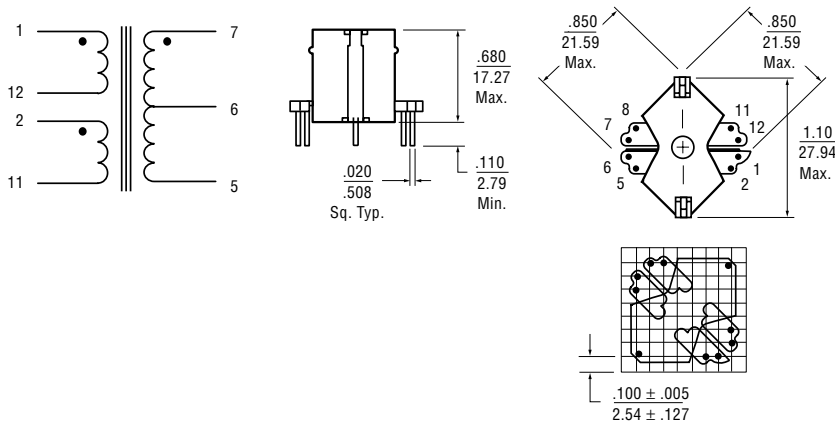


Figure 13

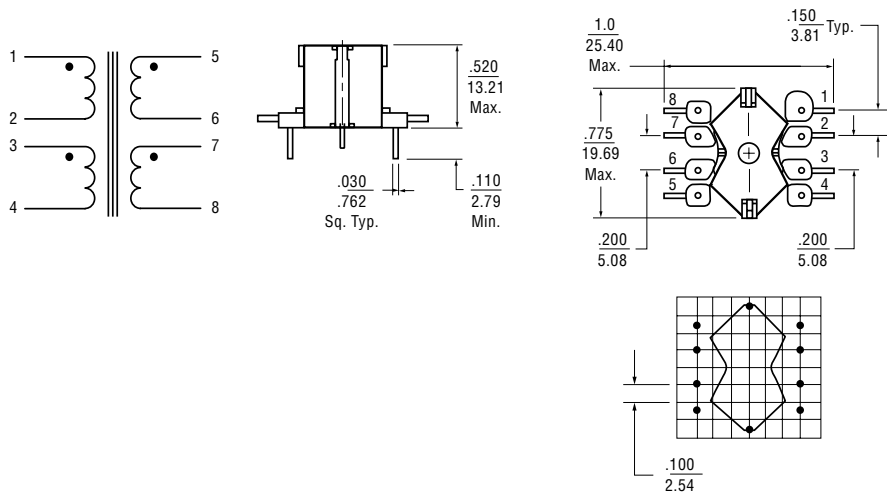


Figure 14

