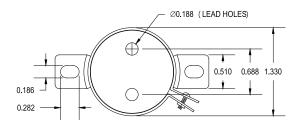
## HAMMOND MANUFACTURING.

Hammond Mfg. Co. Ltd., Electronics Division

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## **140MEX**

CHASSIS MOUNT – SHIELDED IMPEDANCE MATCHING TRANSFORMER

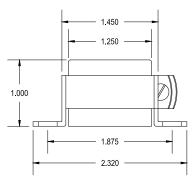


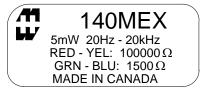
This transformer operates in the 20 Hz to 20 KHz range. The metal can provides excellent shielding from a broad range of external sources. The nickel core provides high permeability combined with low losses.

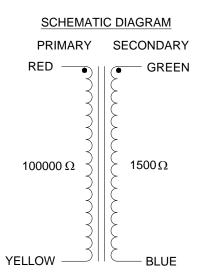
Typical applications Input/output Isolation, Line Matching, Driver, Hybrid applications.

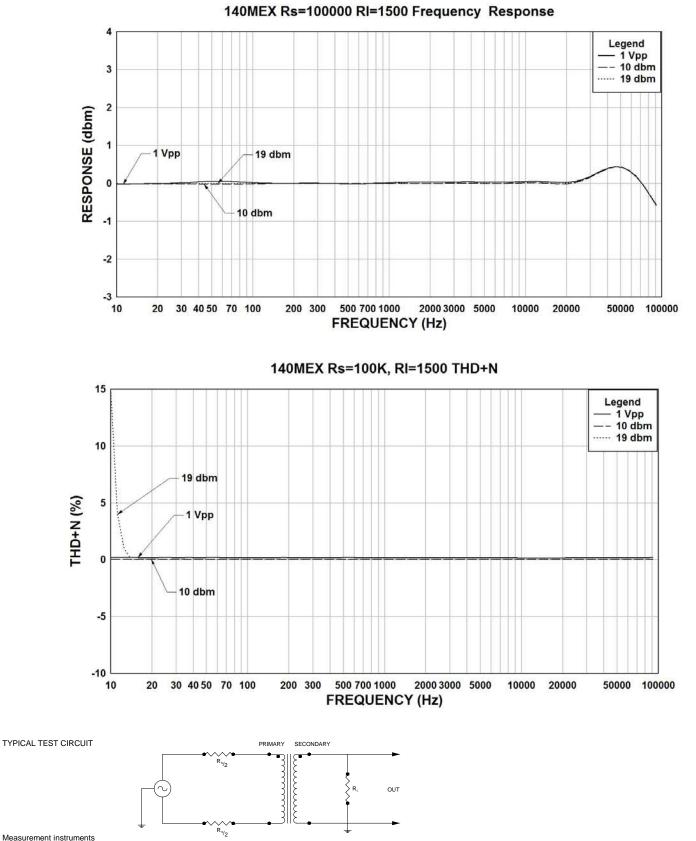
## **ELECTRICAL SPECIFICATIONS**

Input Impedance100,000 ΩOutput Impedance1500 ΩOutput Power10.0 dbmDCRPrimary5430 ΩSecondary159 ΩInductance@ 1.0 kHz, 1.0 V OCPrimary2100 HSecondary34 HImpedance@ 1.0 kHz, 1.0 V OCPrimary13.7 kΩSecondary810 kΩInductanceInsertion Loss<1.2 dbReturn Loss30.0 db		
Output Impedance1500 ΩOutput Power10.0 dbmDCR $Primary$ Primary5430 ΩSecondary159 ΩInductance@ 1.0 kHz, 1.0 V OCPrimary2100 HSecondary34 HImpedance@ 1.0 kHz, 1.0 V OCPrimary13.7 kΩSecondary810 kΩFrequency Response±1db from 20 Hz to 20KHzTurns ratio8.13:1Insertion Loss <td< td=""><td><u>Characteristic</u></td><td><u>Typical</u></td></td<>	<u>Characteristic</u>	<u>Typical</u>
Output Power10.0 dbmDCRPrimaryPrimary5430 ΩSecondary159 ΩInductance@ 1.0 kHz, 1.0 V OCPrimary2100 HSecondary34 HImpedance@ 1.0 kHz, 1.0 V OCPrimary13.7 kΩSecondary810 kΩFrequency Response±1db from 20 Hz to 20KHzTurns ratio8.13:1Insertion Loss<1.2 db	Input Impedance	100,000 Ω
DCRPrimary5430 ΩSecondary159 ΩInductance@ 1.0 kHz, 1.0 V OCPrimary2100 HSecondary34 HImpedance@ 1.0 kHz, 1.0 V OCPrimary13.7 kΩSecondary810 kΩFrequency Response±1db from 20 Hz to 20KHzTurns ratio8.13:1Insertion Loss<1.2 db	Output Impedance	1500 Ω
Primary5430 ΩSecondary159 ΩInductance@ 1.0 kHz, 1.0 V OCPrimary2100 HSecondary34 HImpedance@ 1.0 kHz, 1.0 V OCPrimary13.7 kΩSecondary810 kΩFrequency Response±1db from 20 Hz to 20KHzTurns ratio8.13:1Insertion Loss<1.2 db	Output Power	10.0 dbm
Secondary159 ΩInductance@ 1.0 kHz, 1.0 VOCPrimary2100 HSecondary34 HImpedance@ 1.0 kHz, 1.0 VOCPrimary13.7 kΩSecondary810 kΩFrequency Response±1db from 20 Hz to 20KHzTurns ratio8.13:1Insertion Loss<1.2 db	DCR	
Inductance     @ 1.0 kHz, 1.0 V OC       Primary     2100 H       Secondary     34 H       Impedance     @ 1.0 kHz, 1.0 V OC       Primary     13.7 kΩ       Secondary     810 kΩ       Frequency Response     ±1db from 20 Hz to 20KHz       Turns ratio     8.13:1       Insertion Loss     <1.2 db	Primary	5430 Ω
Primary     2100 H       Secondary     34 H       Impedance     @ 1.0 kHz, 1.0 V OC       Primary     13.7 kΩ       Secondary     810 kΩ       Frequency Response     ±1db from 20 Hz to 20KHz       Turns ratio     8.13:1       Insertion Loss     <1.2 db	Secondary	159 Ω
Secondary     34 H       Impedance     @ 1.0 kHz, 1.0 V     OC       Primary     13.7 kΩ       Secondary     810 kΩ       Frequency Response     ±1db from 20 Hz to 20KHz       Turns ratio     8.13:1       Insertion Loss     <1.2 db	Inductance	@ 1.0 kHz, 1.0 V OC
Impedance     @ 1.0 kHz, 1.0 V     OC       Primary     13.7 kΩ       Secondary     810 kΩ       Frequency Response     ±1db from 20 Hz to 20KHz       Turns ratio     8.13:1       Insertion Loss     <1.2 db	Primary	2100 H
Primary13.7 kΩSecondary810 kΩFrequency Response±1db from 20 Hz to 20KHzTurns ratio8.13:1Insertion Loss<1.2 db	Secondary	34 H
Secondary810 kΩFrequency Response±1db from 20 Hz to 20KHzTurns ratio8.13:1Insertion Loss<1.2 db	Impedance	@ 1.0 kHz, 1.0 V OC
Frequency Response   ±1db from 20 Hz to 20KHz     Turns ratio   8.13:1     Insertion Loss   <1.2 db	Primary	13.7 kΩ
Turns ratio 8.13:1   Insertion Loss <1.2 db	Secondary	810 kΩ
Turns ratio 8.13:1   Insertion Loss <1.2 db		
Insertion Loss <1.2 db Return Loss 30.0 db	Frequency Response	±1db from 20 Hz to 20KHz
Return Loss 30.0 db	Turns ratio	8.13:1
Return Loss 30.0 db		
	Insertion Loss	<1.2 db
	Return Loss	30.0 db
Longitudinal balance -70 db	Longitudinal balance	-70 db
Dielectric Strength 500 Vrms	Dielectric Strength	500 Vrms









Measurement instruments Hp4192a impedance analyzer Hp3456a DVM Keithley 2002 DVM D scope series iii audio analyzer

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