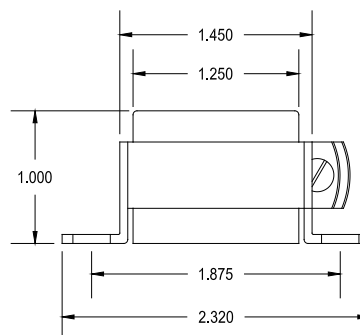
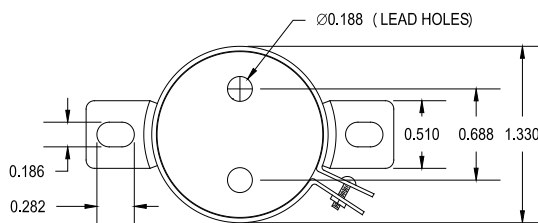


# 140MEX

CHASSIS MOUNT – SHIELDED  
IMPEDANCE MATCHING TRANSFORMER

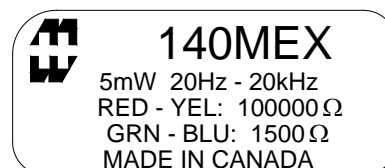
This transformer operates in the 20 Hz to 20 KHz range. The metal can provides excellent shielding from a broad range of external sources. The nickel core provides high permeability combined with low losses.

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

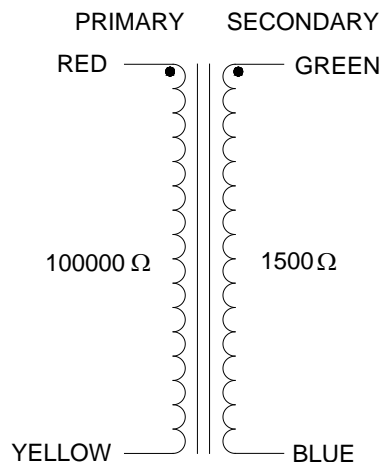


## ELECTRICAL SPECIFICATIONS

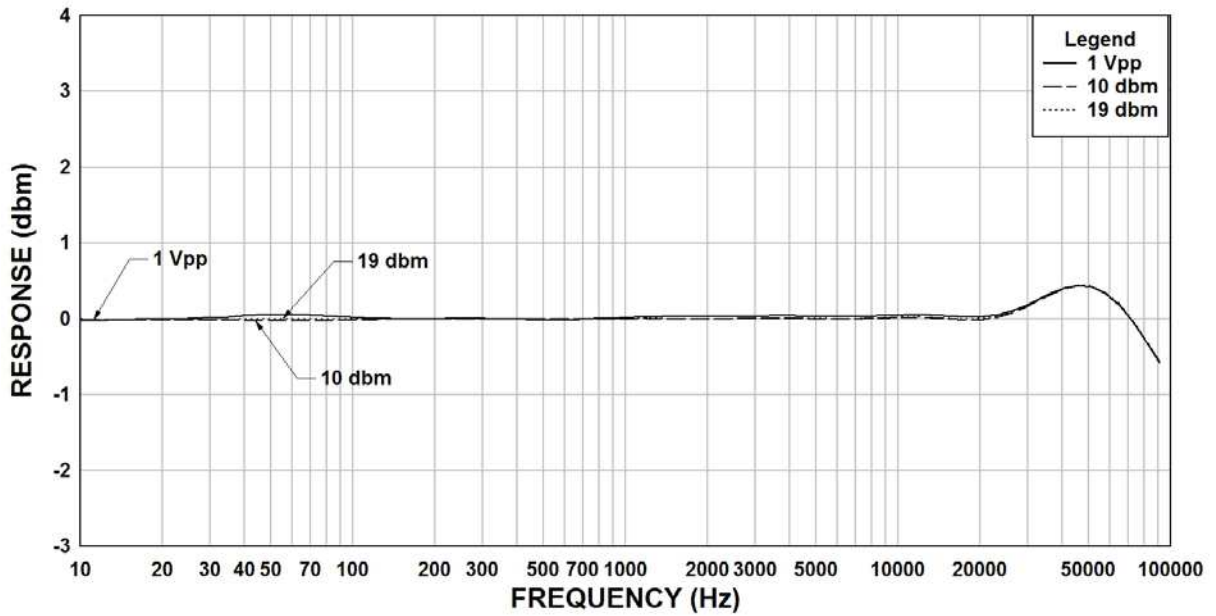
Characteristic	Typical
Input Impedance	100,000 $\Omega$
Output Impedance	1500 $\Omega$
Output Power	10.0 dbm
DCR	
Primary	5430 $\Omega$
Secondary	159 $\Omega$
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	2100 H
Secondary	34 H
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	13.7 k $\Omega$
Secondary	810 k $\Omega$
Frequency Response	$\pm 1$ db from 20 Hz to 20KHz
Turns ratio	8.13:1
Insertion Loss	<1.2 db
Return Loss	30.0 db
Longitudinal balance	-70 db
Dielectric Strength	500 Vrms



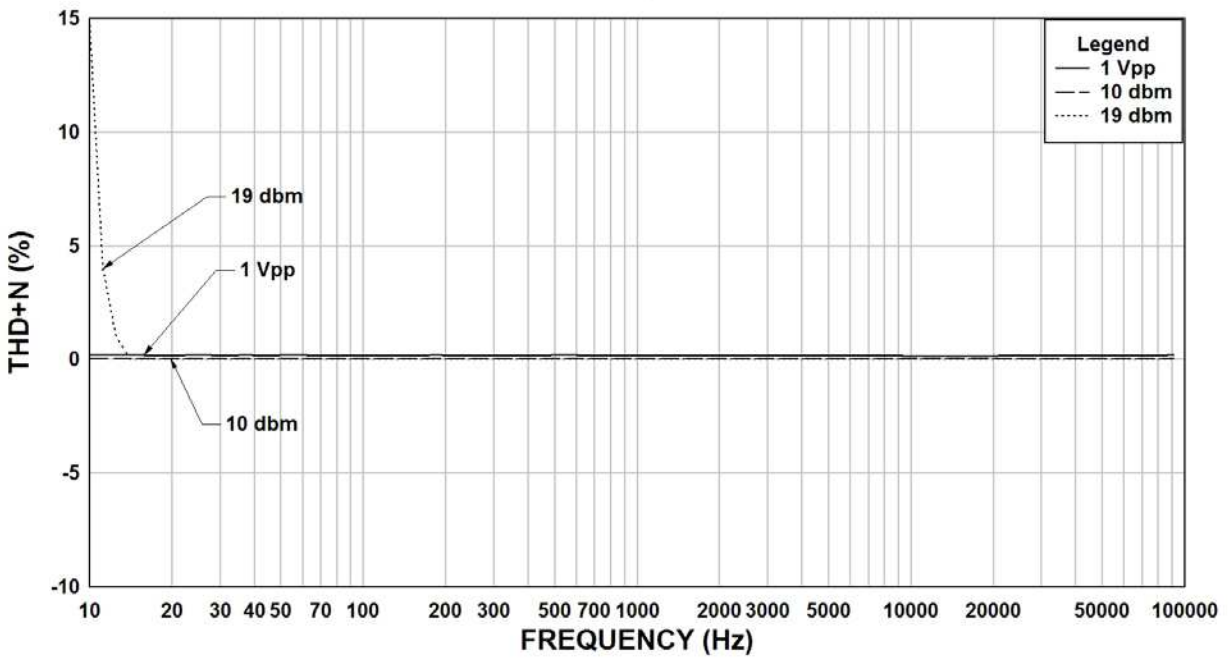
### SCHEMATIC DIAGRAM



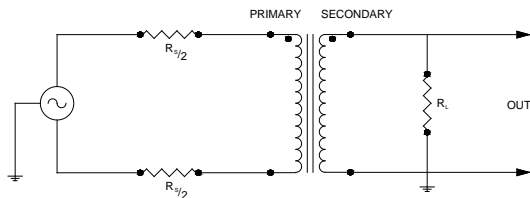
### 140MEX Rs=100000 RI=1500 Frequency Response



### 140MEX Rs=100K, RI=1500 THD+N



#### TYPICAL TEST CIRCUIT



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

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