



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

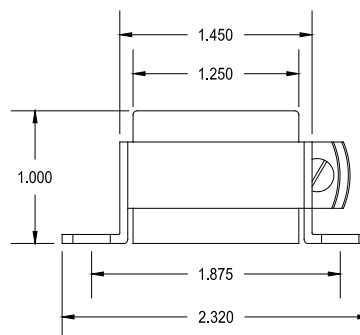
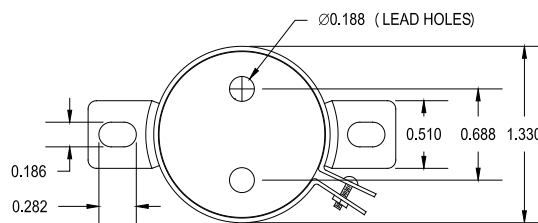


# 140QEX

CHASSIS MOUNT – SHIELDED  
IMPEDANCE MATCHING TRANSFORMER

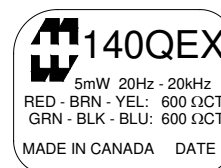
This transformer operates in the 20 Hz to 20 KHz range. The metal can provides excellent shielding from a broad range of external sources. While the nickel core provides high permeability combined with low losses.

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

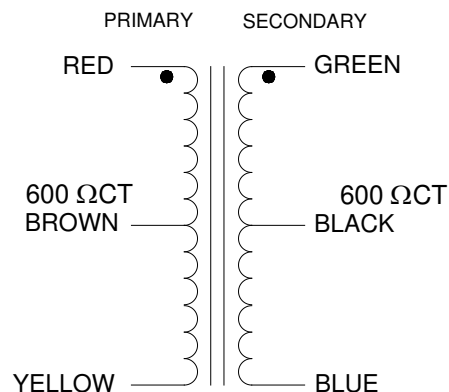


## ELECTRICAL SPECIFICATIONS

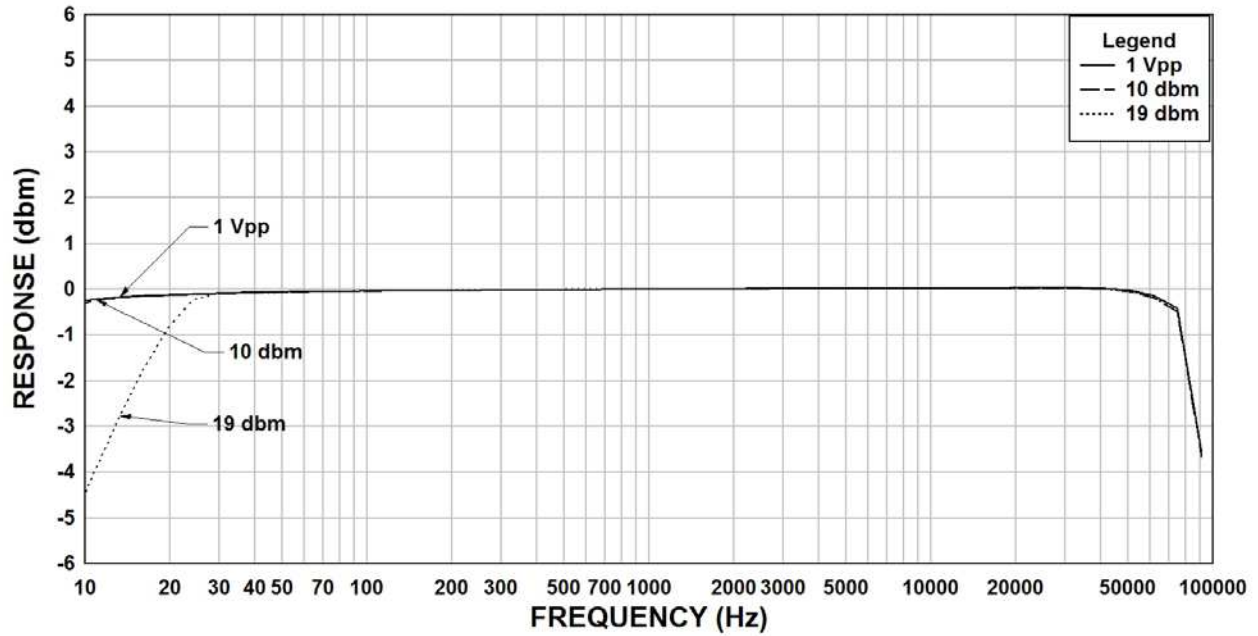
Characteristic	Typical
Input Impedance	600 ΩCT
Output Impedance	600 ΩCT
Output Power	10.0 dbm
DCR	
Primary	72.4 Ω
RED – BRN	36.2 Ω
BRN – YEL	36.2 Ω
Secondary	72.4 Ω
GRN – BLK	36.2 Ω
BLK – BLU	36.2 Ω
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	10.62 H
Secondary	10.62 H
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	64.5kΩ
Secondary	64.5kΩ
Frequency Response	±1db from 20 Hz to 20KHz
Turns ratio	1:1
Insertion Loss	< 1.1 db
Return Loss	20 db
Longitudinal balance	-65 db
Dielectric Strength	500 Vrms



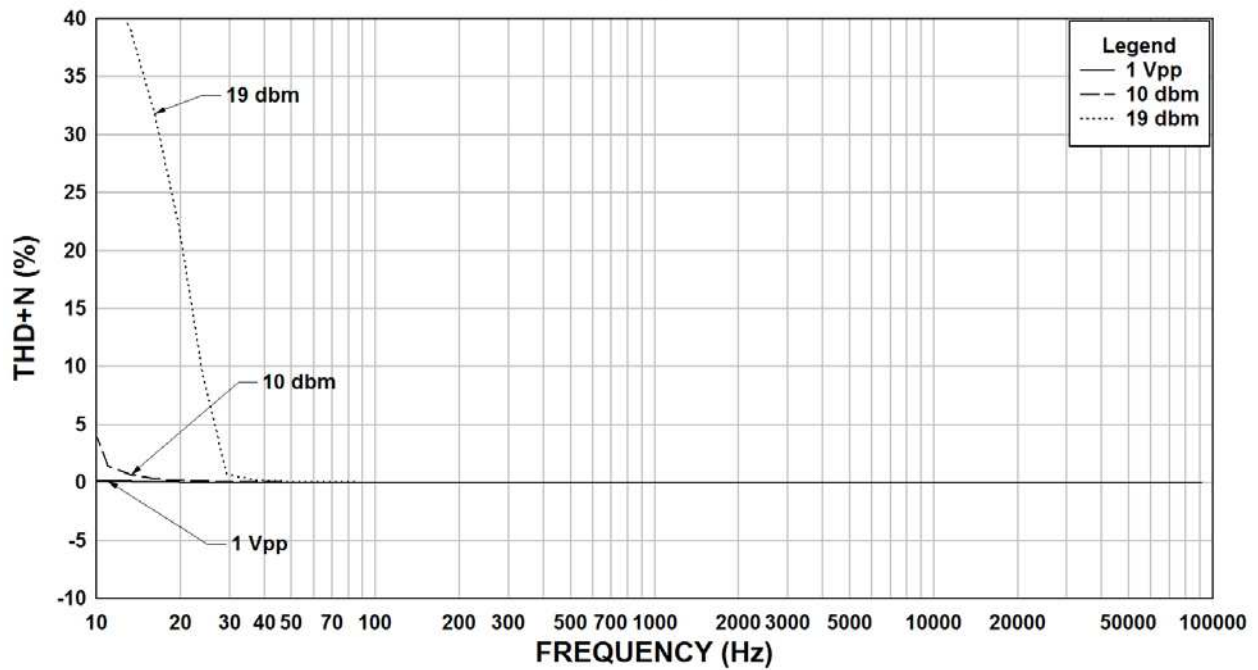
## SCHEMATIC DIAGRAM



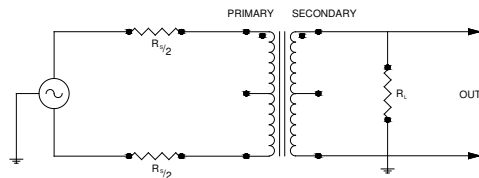
### 140QEX Rs=600, RI=600 Frequency Response



### 140QEX Rs=600, RI=600 THD+N



#### TYPICAL TEST CIRCUIT



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

This drawing and the information in it is the property of Hammond Manufacturing. It may not be reproduced, transmitted or used in any manner whatsoever without the written permission of Hammond Manufacturing. Data subject to change without notice.