

# TMC Low Distortion Oscillator

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S.N.8559/1/31

ebay \$31, Apr 2009.

Marking: "Recorded 15/11/67"

Wein bridge circuit.

TMC Ltd, Australia.

Likely details: T.M.C. PTY. LIMITED ACN 007598843 registered 13/4/1960, deregistered 4/7/1985

(Philips TMC appears to have no connection, and was just a shortened name for Philips Telecommunications Manufacturing Company taken on circa 1972)

Powered from AC or 24VDC or 48VDC

dBm output meter. into 600 unbalanced, 600 balanced, 40 ohm.

+20dBm into 600 ohm is 7.32Vrms

30Hz to 30kHz in 3 ranges

Working perfectly except for +10 dBm output selector (higher distortion ~4%).

0.046% on -20dB scale; 0.06% THD on 0dB scale. 0.14% THD+N when AC powering; 0.06% THD+N when 24VDC powered with screened cable.

power transformer ORION EDT-3 7107

choke A1025-3 dipped with inspection mark.

Master Instruments 200uA 1000 ohm Model S34 meter

OC24 2R4 AY8104 2N3645 OA7 diode

AY6101 2N3638 BJTs with ferrite beads on legs

Colvern LTC CLV/YB wirewound 5K pot

IRC 500ohm 2W pot C7

IRC Australian 1% resistors

IRC PW5 65 28, 68 1

Bulb R14 18 PR

Caps Ducon 396 , 397, 396 Plessey XM76, XG 18

transistor drive transformer 29 22 24

Output transformer - interleaved windings

pcb - only shows an inspection mark

Mods:

Front panel connector - replaced by XLR connector.





