



Reichenbach Engineering



## CM-S217D

### Vacuum tube output transformer L12 50% Nickel alloy laminations (same as Peerless S217D)

- Replacement for Peerless S217D but with different mounting arrangement
- Excellent bandwidth & excellent phase shift
- Tertiary windings closely coupled to other windings
- Layer wound

The original Peerless S217D transformers are nearing their end of life. Many are exhibiting current leakage between windings which can cause low level pops which progressively get worse over time. The CM-S217D has been carefully engineered to replicate the performance characteristics of the Peerless part. The S217D used L12 laminations. That tooling was scrapped out many years ago when the company that originally manufactured them was bought out. CineMag produced its own tooling at very great expense to make these laminations, using the original drawings. The mu-metal used to produce these laminations come from the same original company and the alloy is the same.

### CM-S217D

Parameter	Conditions	Typ
Turns Ratio		22.2 : 4.96 : 1
Primary Inductance	f=1kHz Test Circuit 1	38.1H
Leakage Inductance	f=1kHz Test Circuit 1	19mH
Voltage Gain		12,500:600/300 + tertiary 3125:150/75 + tertiary
Distortion (THD+N%)	1kHz +0.0dBu Rs=600 RL=600 20Hz +0dBu Test Circuit 1	0.02% 0.1%
Max output level	Rs=600 RL=600 Test Circuit 1	+20dBm
Phase Shift at 20 Hz Phase Shift at 20 kHz	Rs=600 RL=600 Test Circuit 1	nil -1°
CMRR	60 Hz Test Circuit 2 per IEE Std 389-1996 ¶19 1 kHz Test Circuit 2 per IEE Std 389-1996 ¶19	-115dBu -102dBu
Operating Temp Range	Operation and storage	0° C Min 70° C Max

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