

Superior Magnetics Since 1979



CMMI-8APC

Microphone Input Transformer 1:8 Step-up

- Good for bipolar transistor, F.E.T. and tube amplifiers
- Very Good Bandwidth (essentially flat to 60 kHz; -3 dB at 120 kHz)
- Very Good CMRR: 102 dB at 60 Hz
- +18 dB nominal voltage step-up
- Low profile package; pc. mount

The CineMag CMMI-8APC is a p.c. mount microphone input transformer which follows classic designs. It is best used with medium to high input impedance amplifiers. It exhibits good bandwidth, common mode rejection ratio (CMRR), and distortion characteristics. The CMMI-8-PCA is a small cost-effective p.c. mount solution and is widely used in professional grade designs. It is encased in a μ Metal can which provides 30 dB of magnetic shielding. As with all CineMag transformers, the wires from the internal foil shields between windings are all spot welded for maximum long term reliability.

The secondary of this transformer has a moderately high impedance. Care must be exercised in the design of the amplifier that it drives to obtain best results and to realize good bandwidth.

Parameter	Conditions		Тур	
Turns Ratio			1 : 8.00	
Voltage Gain	1 kHz, -20 dBu 150Ω input, 100K secondary load impedance		17.8 dBu	
Distortion (THD+N%)	1 kHz, -11 dBu 20 Hz, -20 dBu	Test circuit 1 Test circuit 1	0.0015% 0.055%	, 0
Max 20 Hz input level	1.0% THD;	Test Circuit 1	-2 dBu	
Response, ref 1 kHz	20 Hz 20 kHz -3 dB	Test Circuit 1 Test Circuit 1	-0.02 dB +0.01 dB 120 kHz	
Phase Shift at 20 Hz Phase Shift at 20 kHz	Referenced to source generator Test Circuit 1		+4° -12°	
CMRR	60 Hz Test Circuit 2 per IEEE Std 389-1996 ¶19 1 kHz Test Circuit 2 per IEEE Std 389-1996 ¶19		102 dB 87 dB	
Operating Temp Range	Operation and storage		0° C Min	70° C Max
Max Soldering Temp (p.c.)	5 Seconds		335°C Max	

CMMI-8APC

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1. All graphs generated from one (1) randomly chosen device. No statistical averaging or weighting. Data from one sweep.

2. R/C snubber optional.



Printed Circuit Pad - Recommended <u>Minimum</u> Hole Diameter



NOTES:

1. Removal of this transformer from a printed circuit board may result in internal failure because the wires are extremely fine. Desoldering heats the pins thus softening the bobbin rail that captures them, allowing a small amount of movement which can damage the transformer.

2. Best circuit board layout practice is to keep the diameter of the top layer pad small so as to avoid an accidental short to the transformer can. Spacers will be provided at no extra cost if asked for, which will avoid this problem. It is recommended that signal traces and signal grounds not be run on the top of the pcb as they may be capacitively coupled to the chassis ground which is connected to the transformer case through Pin 7. That may result in a ground loop which can inject hum onto the signal.