

6. Compatibilitate Electro-Magnetica (CEM) pe un Circuit Placa Imprimata (CPI)

6.1. Cuplaje intre Traseele de pe un CPI

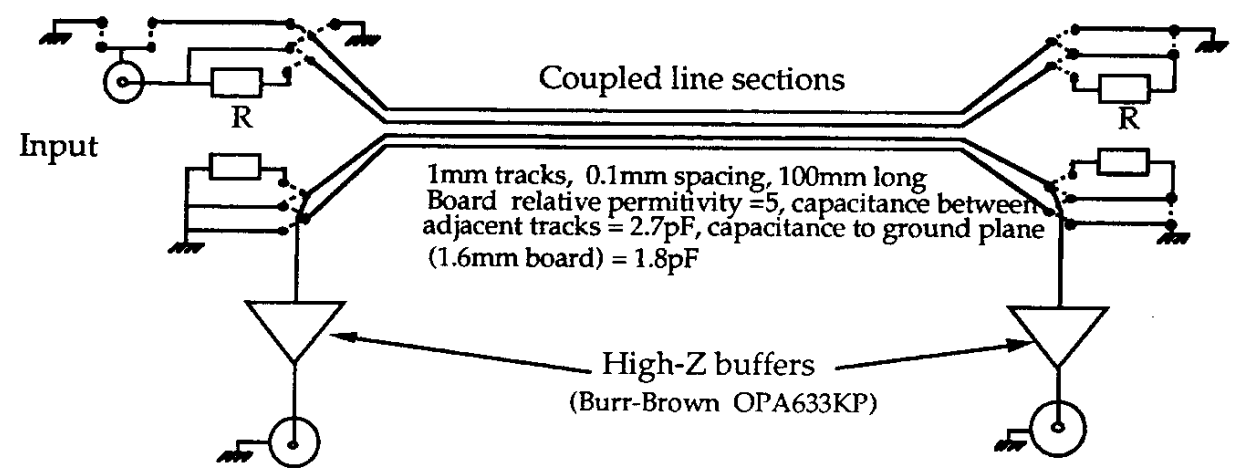
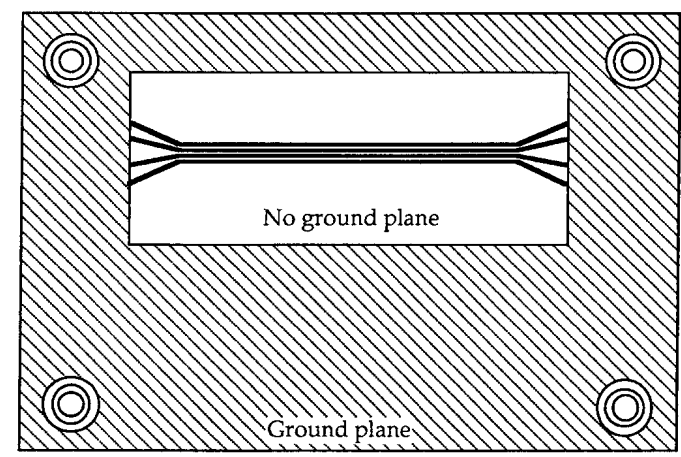
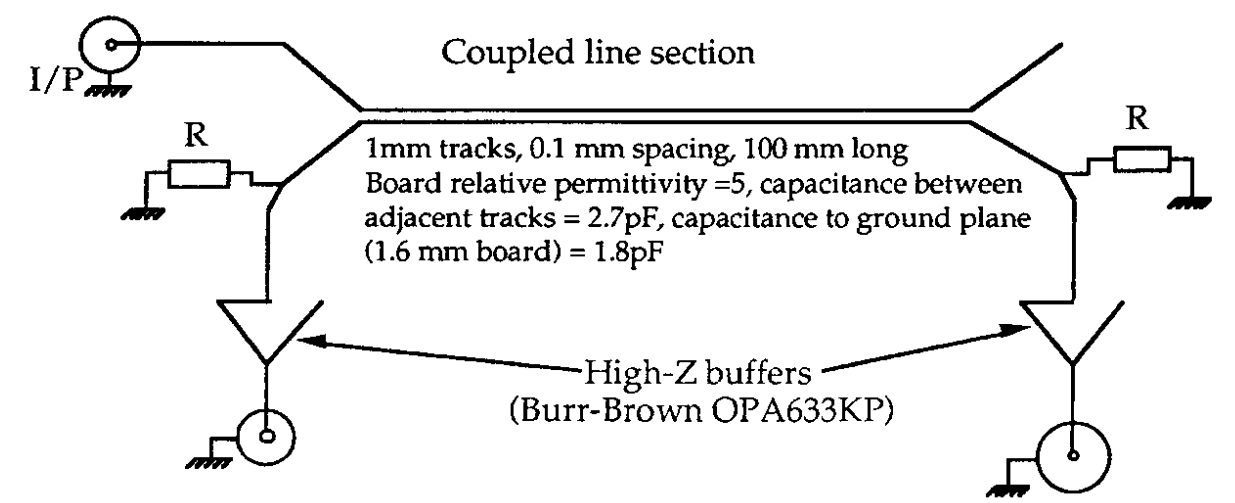


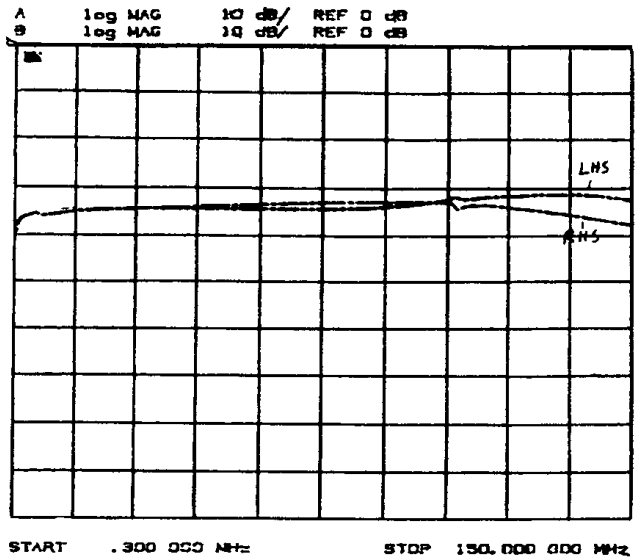
Figura 4.2.21. Diagrama de circuit pentru placa demonstrativa a cuplajului traseelor



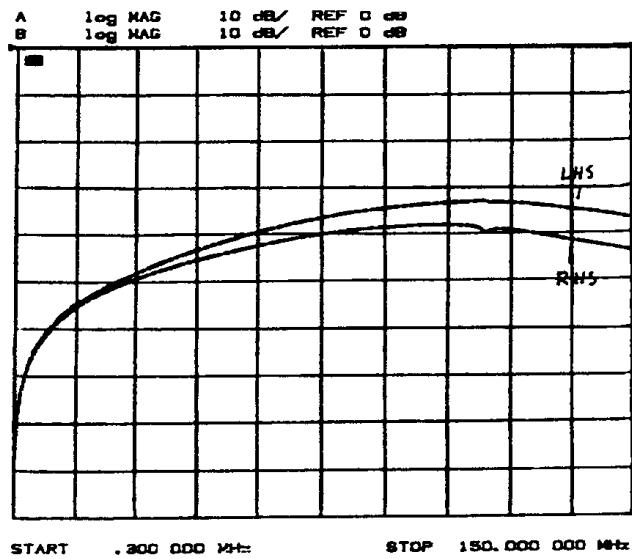
Conexiunile placii demonstrative a cuplajelor traseelor pe un PIC (PCB)



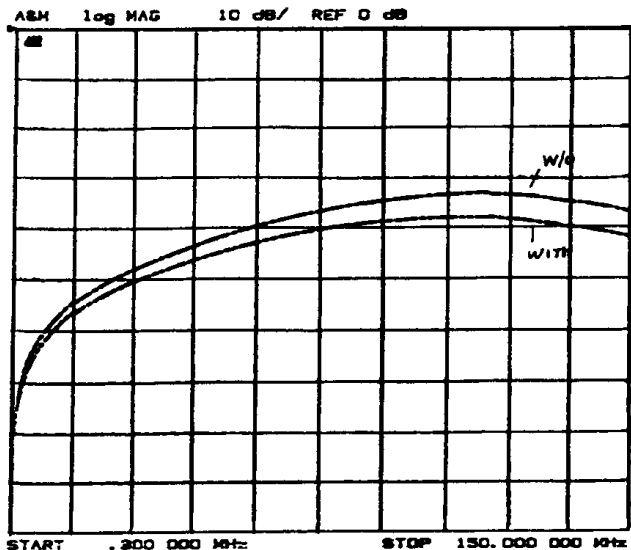
Cuplajul capacitiv dintre trasee



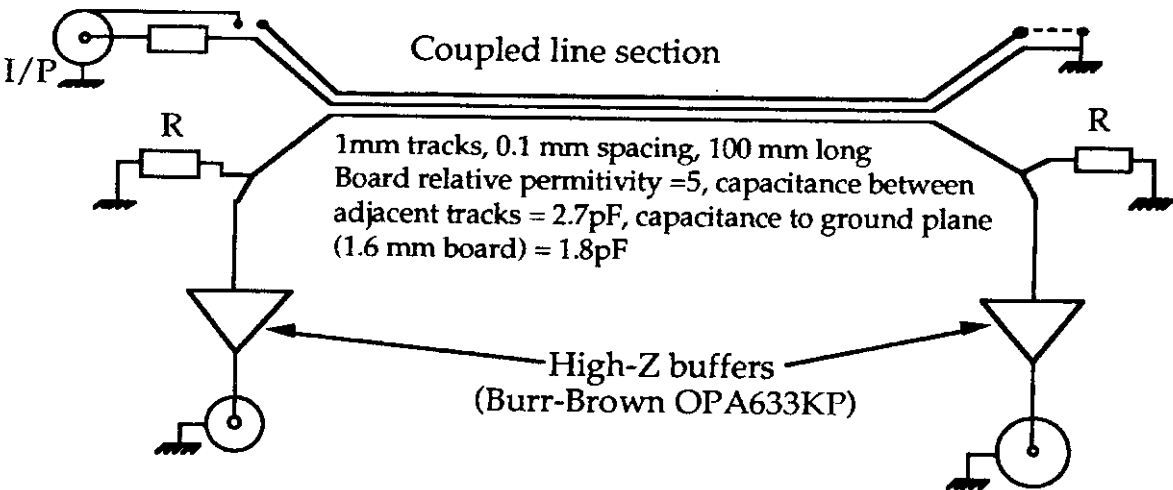
Raspunsul in frecventa a cuplajului capacitiv - conductorul victima nu are rezistenta de sarcina



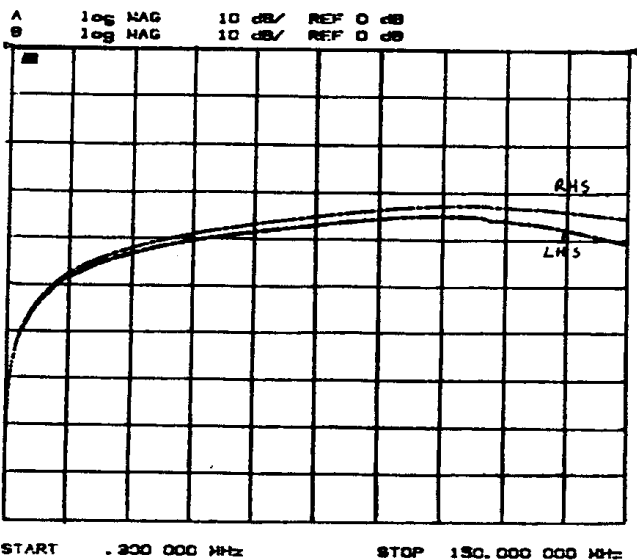
Raspunsul in frecventa a cuplajului capacitiv - fiecare conductor victima are la bornele terminale un rezistor de sarcina de 50W



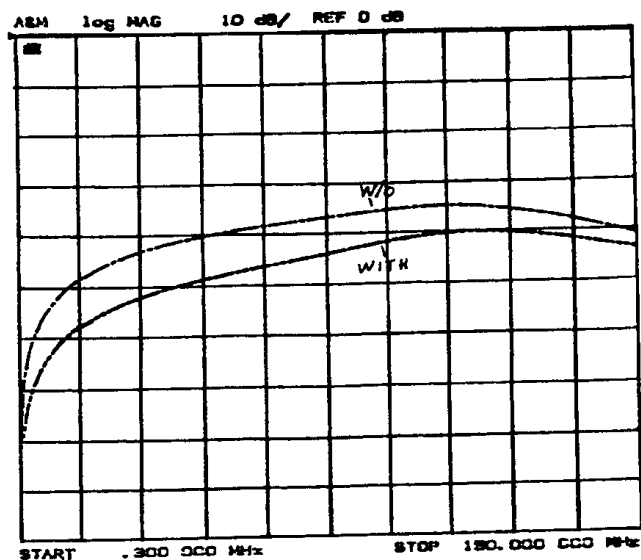
Raspunsul la frecventa a cuplajului capacitiv - cu si fara plan inpamintat



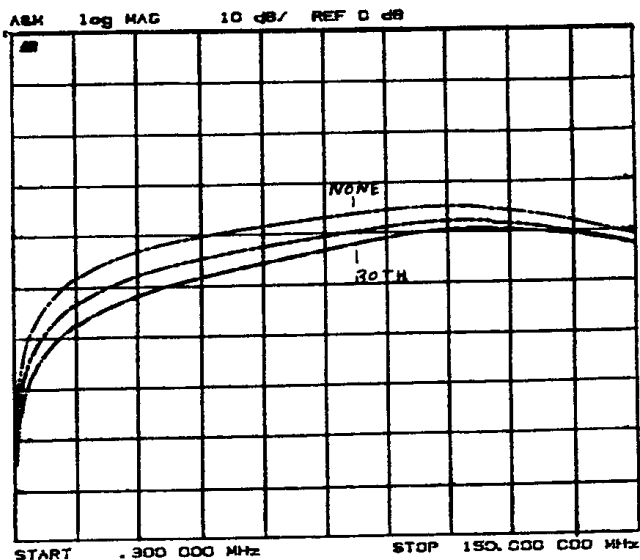
PIC configurat[numai pentru Cuplaj Inductiv



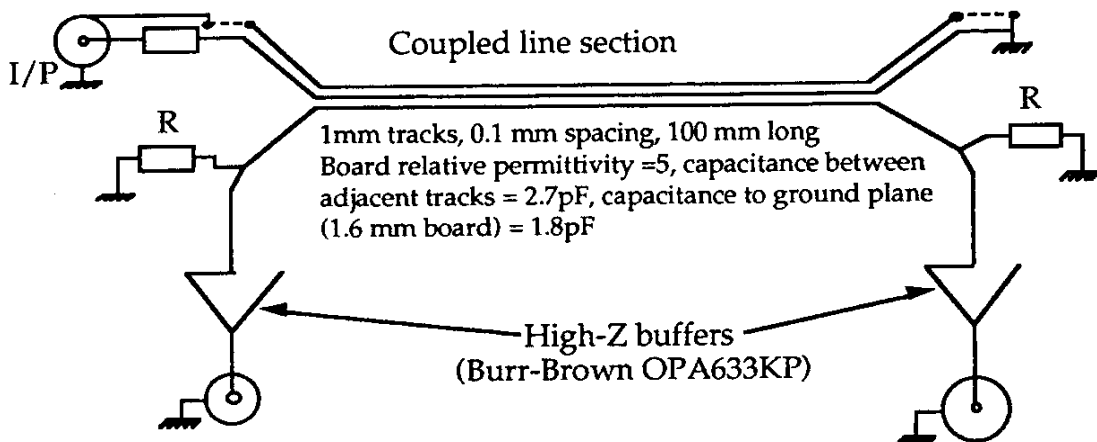
Raspunsul in Frecventa pentru Cuplajul Inductiv --sarcina rezistiva este de 50 W la fiecare terminal final al victimei



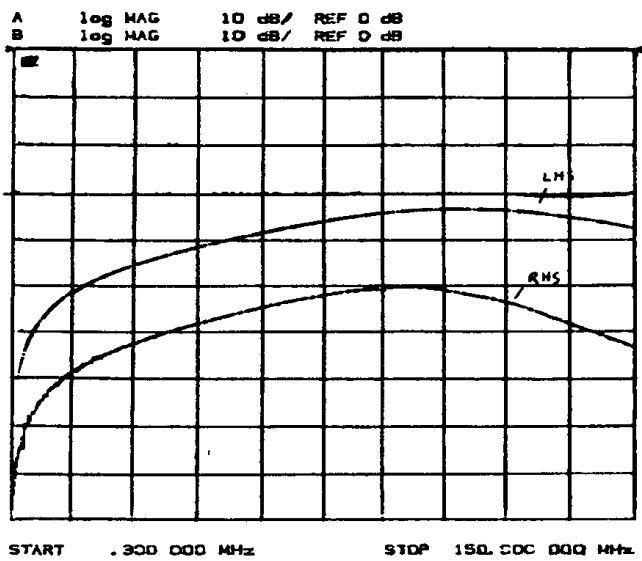
Raspunsul in Frecventa pentru Cuplajul Inductiv -- cu si fara plan conductor legat la pamint



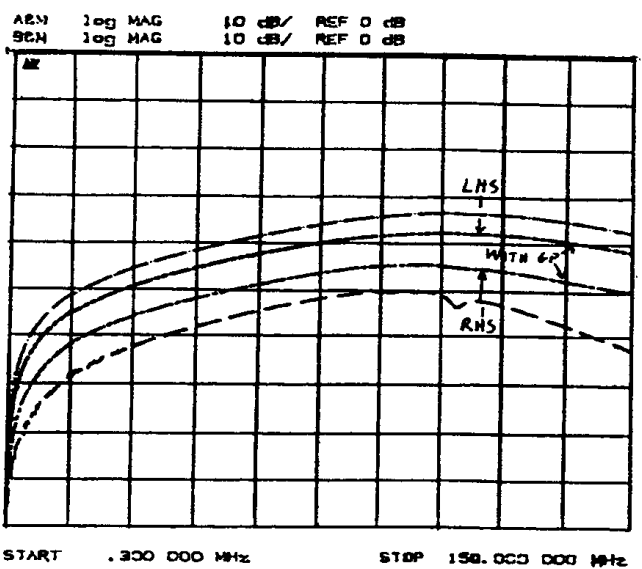
Raspunsul in Frecventa pentru Cuplajul Inductiv -- fara , cu una , si cu ambele cai de intoarcere conectate



Tehnici de Proiectare CIEM . CIEM pe o Placa de Circuit Imprimat (Printed Circuit Board - PCB) : Introducere
.Mecanisme de Cuplaj .
PIC pentru demonstratie configurat pentru Cuplaj combinat : Inductiv si Capacitiv

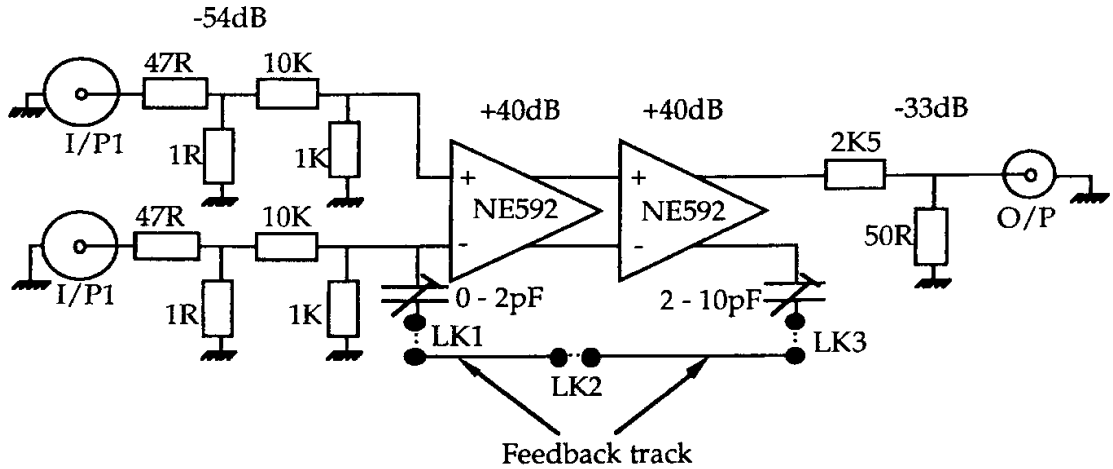


Raspunsul in functie de frecventa pentru Cuplajul Combinat

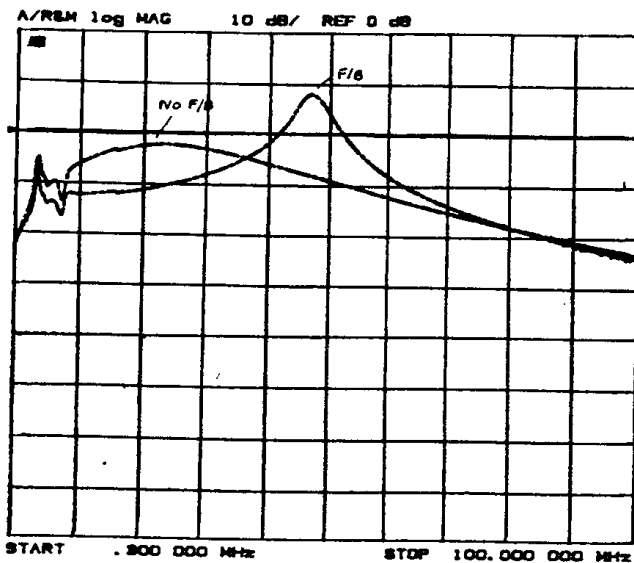
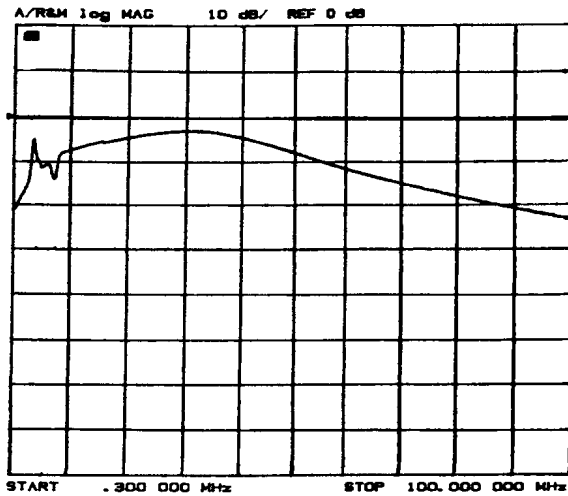


Raspunsul in functie de frecventa pentru Cuplajul Combinat cu si fara plan conductor legat la pamint

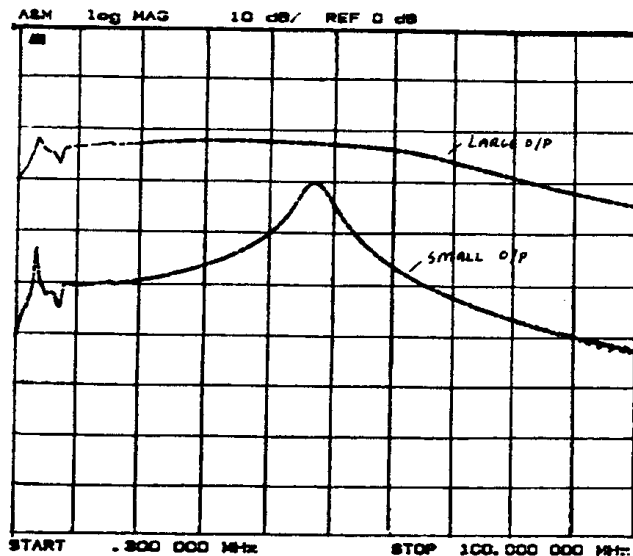
6.2. Amplificatorul de Banda Larga (reactie nedorita sau feedback nedorit)



Circuit de tip Amplificator Trece--Banda , de mare cistig (cu factor de amplificare de valoare ridicata)



Tehnici de Proiectare CIEM . CIEM pe o Placa de Circuit Imprimat (Printed Circuit Board - PCB) : Introducere
.Mecanisme de Cuplaj .



Raspunsul amplificatorului la frecventa evidentiindu-se efectul comprimarii cistigului pentru amplitudini de intrare ridicate