

MATCHED PAIR  
MICROPHONE

EM-27902-C38

SHEET 2.1

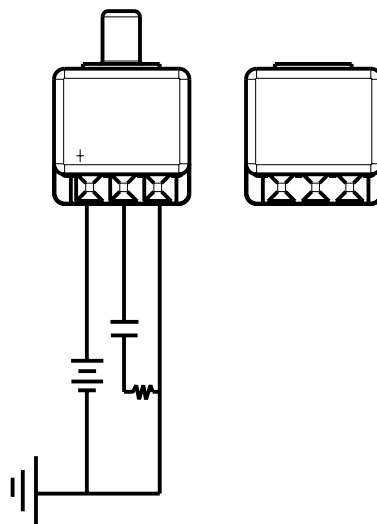
PAIR	CONSIST OF:
EM-27902-C38	(1) EM-27900-C46 & (1) EM-27901-C46

BOTH MICROPHONES OF THE PAIR ARE TESTED TO THEIR RESPECTIVE SHT 2.1 AND THEN MATCHED TO THE OTHER MICROPHONE USING THE SPECIFICATION AND CONDITIONS BELOW:

FREQUENCY	TEST TYPE	RANGE OF DEVIATION BETWEEN MICROPHONES	UNITS
500 Hz	SENSITIVITY	1.0 MAX.	dBV
200 Hz	PHASE	2.0 MAX.	DEGREES
4000 Hz	PHASE	5.0 TO 20.0 EM-27901 PHASE TO LEAD EM-27900 PHASE	DEGREES

NOTES:

1. DC SUPPLY VOLTAGE 0.930 VOLTS.
2. TESTED WITH 26 kΩ LOAD AND 1μF CAPACITOR COUPLED TO THE OUTPUT. SEE SCHEMATIC.
3. SENSITIVITY AND PHASE VALUES INDICATED ARE VALID AT 50% RH.



Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Released	A
A	M10100935	12-27-05		

**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION

TITLE: **MICROPHONE PAIR** **EM-27902-C38**  
PERFORMANCE SPECIFICATION **SHT 2.1**

DR. BY	DATE
MMM	12-27-05
CK. BY	DATE
GJP	1-2-06
APP. BY	DATE
GJP	1-2-06