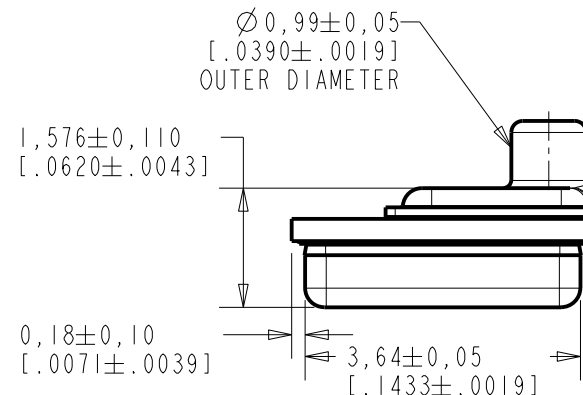
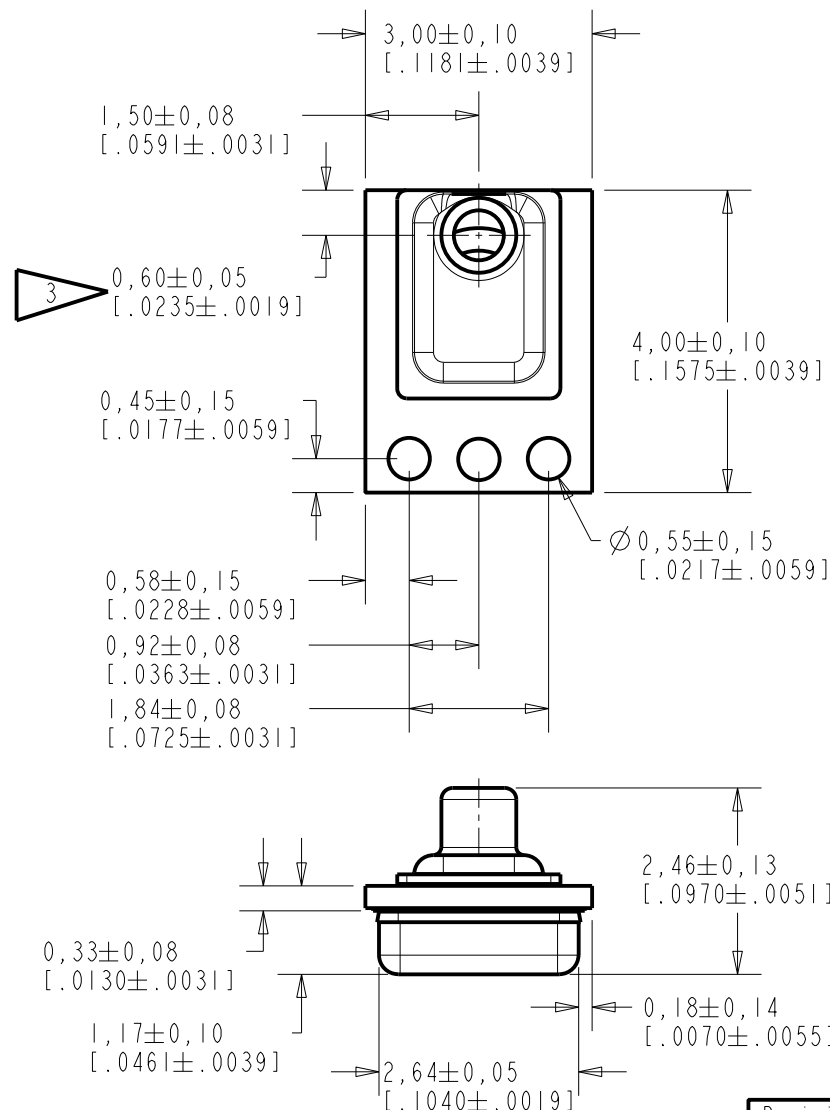


QM-31353-S27

SHT 1.1

NOTES:

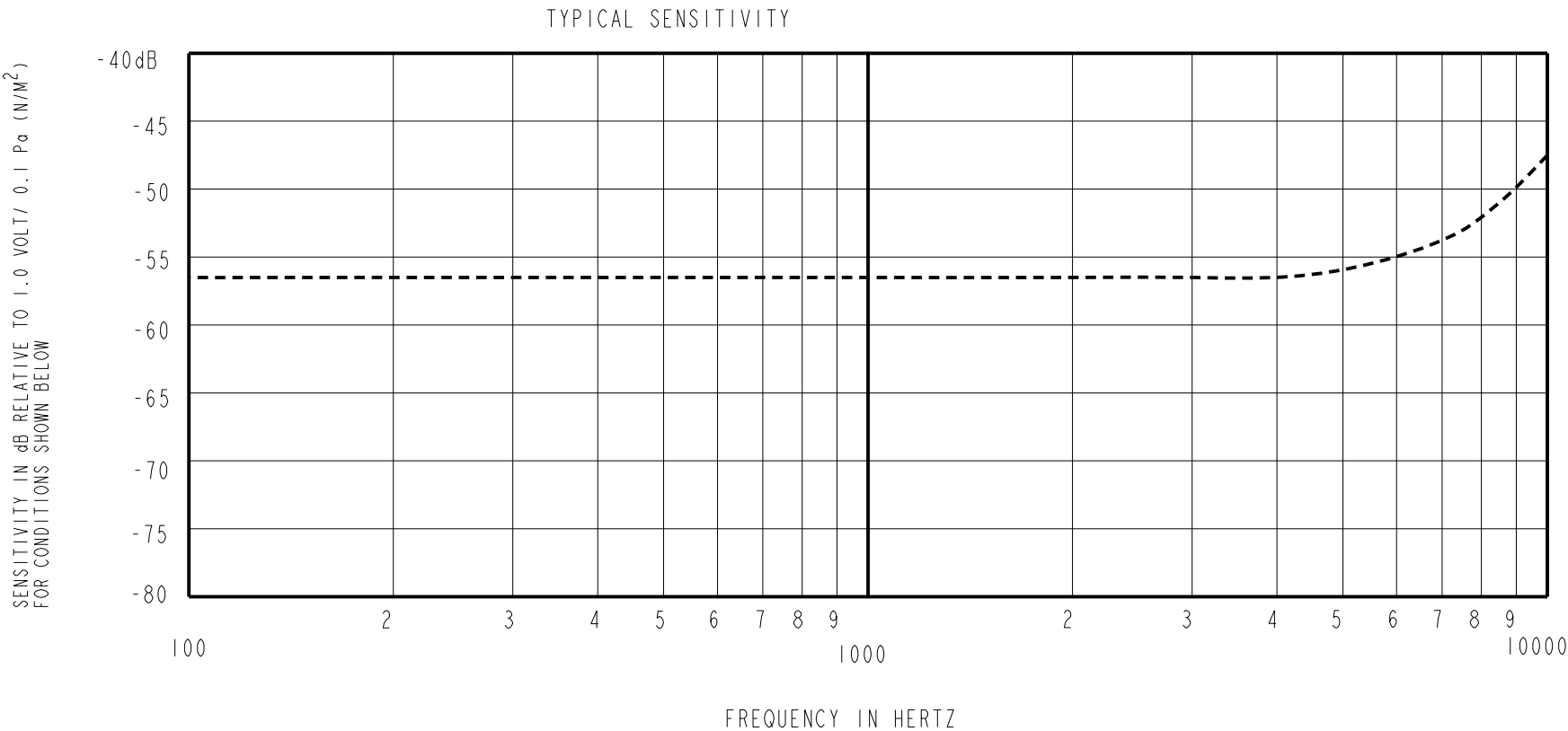
1. DO NOT PULL A VACUUM OR APPLY AIR PRESSURE OVER THE PORT HOLE OF THE MICROPHONE. PULLING A VACUUM OR APPLYING AIR PRESSURE OVER THE PORT HOLE CAN DAMAGE THE DEVICE.
2. DO NOT INSERT ANY OBJECT IN PORT HOLE OF DEVICE AT ANY TIME AS THIS CAN DAMAGE THE DEVICE.
3. TUBE CENTER DIMENSION MEASURED FROM THE EDGE OF THE MICROPHONE PCB.
4. RECOMMEND NO MORE THAN 3 REFLOW CYCLES.



DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
E	MI0105112	6-14-13	Active	E
D	MI0104622	5-23-12		
SCALE: 10:1			DR. BY	DATE
DO NOT SCALE DRAWING			MMM	5-19-11
TITLE: MICROPHONE			CK. BY	DATE
OUTLINE DRAWING			GJP	5-20-11
QM-31353-S27			APP. BY	DATE
SHT 1.1			GJP	5-20-11

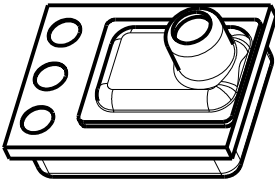


SENSITIVITY MEASURED IN A PRESSURE CAVITY UNDER THE NOMINAL CONDITIONS SHOWN BELOW

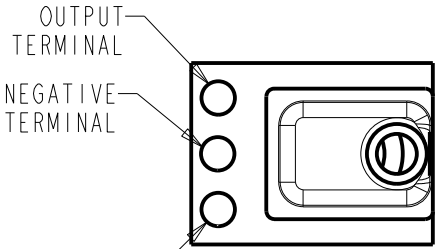
POWER REQUIREMENT						
PARAMETER		UNIT	MINIMUM	NOMINAL	MAXIMUM	REMARKS
SUPPLY VOLTAGE RANGE		VDC	0.9	0.9	1.6	-

PERFORMANCE						
PARAMETERS		UNIT	MINIMUM	NOMINAL	MAXIMUM	REMARKS
SENSITIVITY	100 Hz	dB	-2.0	-0.0	+2.0	re SENSITIVITY AT 1 kHz
	1000 Hz	dB	-59.5	-56.5	-53.5	dB re 1V/0.1Pa
	10 kHz	dB	+6.0	+9.0	+12.0	re SENSITIVITY AT 1 kHz
CURRENT DRAIN		µA	-	34	55	-
OUTPUT LOAD VOLTAGE		V _L	0.28	0.45	0.80	OPEN LOAD
A-WEIGHTED NOISE		dB SPL	-	26.5	30	INPUT REFERRED NOISE re SENSITIVITY AT 1kHz
OUTPUT IMPEDANCE		Ohms	1900	2900	5900	-

- NOTES: 1. REFLOWED CUP CONNECTED TO NEGATIVE TERMINAL. GLUED CUP-TUBE PART IS NOT CONNECTED TO NEGATIVE TERMINAL.
2. PERFORMANCE PARAMETERS ARE VALID AT 0.9 VDC. TYPICAL TEST ENVIRONMENT:50% RH, 21°C (70°F)



PORT LOCATION: 12JP



TERMINAL DEFINITION

KNOWLES RESERVES THE RIGHT TO MAKE CHANGES TO IMPROVE RELIABILITY AND PERFORMANCE OF THE PRODUCT.

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
E	MI0105112	6-14-13	Active	E
D	MI0104622	5-23-12		

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		DR. BY	DATE
		MMM	5-19-11
		CK. BY	DATE
		GJP	5-20-11

TITLE:	MICROPHONE	OM-31353-S27
	PERFORMANCE SPECIFICATION	SHT 2.1

APP. BY	DATE
GJP	5-20-11

