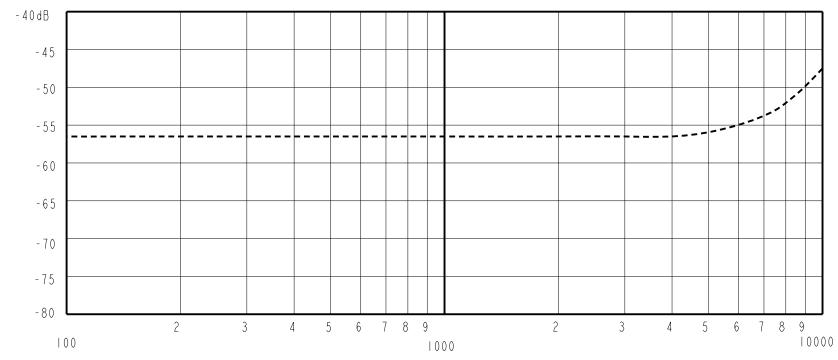


RoHS COMPLIANT





FREQUENCY IN HERTZ

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

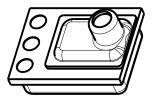
SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/ 0.1 Pg (N/M 2) FOR CONDITIONS SHOWN BELOW

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

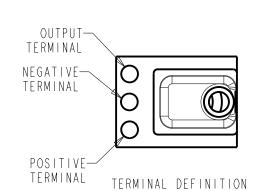
			PERFORMAN	CE		
PARAMETERS		UNIT	MINIMUM	NOMINAL	MAXIMUM	REMARKS
	100 Hz	dB	-2.0	-0.0	+2.0	re SENSITIVITY AT I kHz
SENSITIVITY	1000 Hz	dB	-59.5	- 56 . 5	-53.5	dB re IV/0.1Pa
	IO kHz	dB	+6.0	+9.0	+12.0	re SENSITIVITY AT I kHz
CURRENT DRAIN		μA	-	34	55	-
OUTPUT LOAD VOLTAGE		٧ _L	0.28	0.45	0.80	OPEN LOAD
A-WEIGHTED NOISE		dB SPL	-	26.5	30	INPUT REFERRED NOISE re SENSITIVITY AT IKHZ
OUTPUT IMPEDANCE		Ohms	1900	2900	5900	-

NOTES: I. 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



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

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
				_
E	M10105112	6 - 4 - 3	Active	-
D	M10104622	5-23-12	710 1 1 0	L

SHT 2.1

DATE 5 - | 9 - | |

DATE

5-20-11 DATE

5-20-11

<u>G J</u>P

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

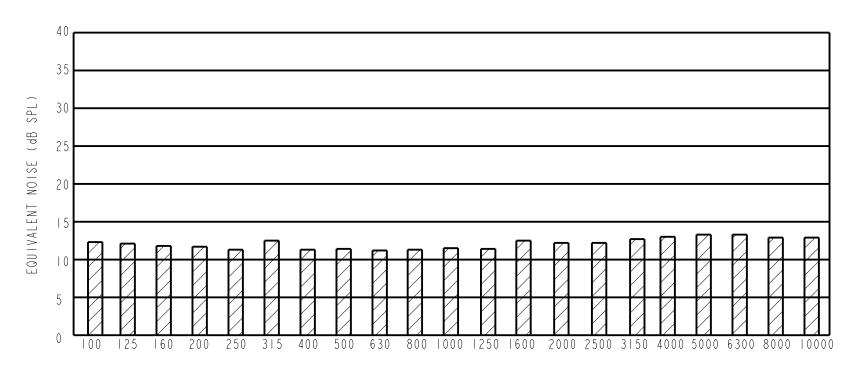
	D M10104622 5-23-12							
	WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTIO							
CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION								
MICROPHONE 0M-31353-S27								
	INTO TO T							

PERFORMANCE SPECIFICATION

OM-31353-S27 SHEET 2.2

RoHS COMPLIANT

A) I/3 OCTAVE INPUT REFERRED NOISE



1/3 OCTAVE BANDS (Hz)

B) PERFORMANCE

		PERI	FORMANCE			
PARAMETERS		UNIT	MINIMUM	TYPICAL	MAXIMUM	REMARKS
POWER SUPPLY	1000 Hz	dB	-	- 42	-18	SUPPLY VOLTAGE @ 0.9 VDC
REJECTION RATIO (PSRR)		Q D		-	-	SUPPLY VOLTAGE @ 1.3 VDC
INPUT REFERRED VIBRATION SENSITIVITY	1000 Hz	dB SPL	-	5 4	60	BLOCKED PORT; Ig ACCELERATION
HUMIDITY COEFFICIENT 1000 Hz		dB		0.0		PER %RH
TEMPERATURE RANGE	OPERATION	°C (°F)	0 (32)	-	63 (145)	CELSIUS (FAHRENHEIT)
TEMPERATURE RANGE	STORAGE	°C (°F)	-40 (-40)	-	100 (212)	CELSIUS (FAHRENHEIT)
ESD TOLERANCE MIL-STD-750 CLASS 2 RATING EOS/ESD-S5.1-1993 CLASS 2 RATING						

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

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
				l –
E	M10105112	6 - 4 - 3	Active	l -
D	MI0104622	5-23-12		

SHT 2.2

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION PR. BY CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR MMM CK. BY

TITLE: MICROPHONE OM-31353-S27

GJP

PERFORMANCE SPECIFICATION

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

DATE

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Knowles:

QM-31752-S27