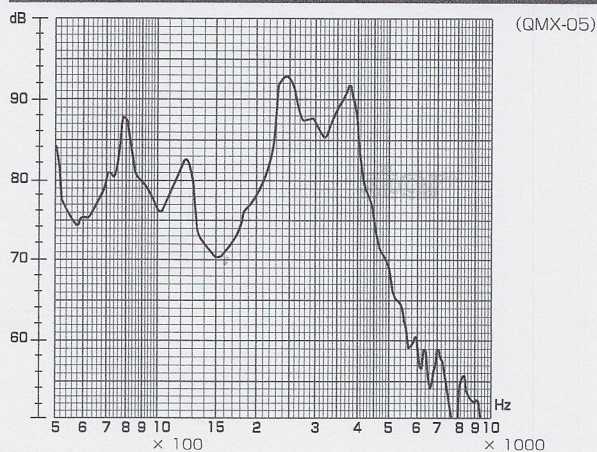




Dip Wide Frequency RoHS

Frequency Response



applied voltage : 5V, square wave : 1/2 duty,
distance for measurement : 10cm

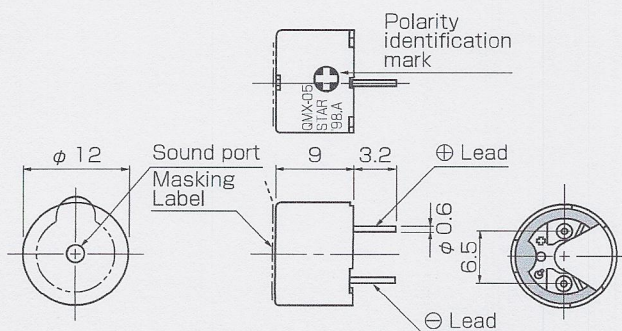
Specifications

Type	QMX-05	QMX-12
Rated Voltage (V)	5	12
※ Mean Current Consumption (mA)	MAX40(TYP33)	MAX40(TYP28)
Coil Resistance (Ω)	47±5	140±14
※ SPL at MIN10cm (dBA)	MIN85(TYP92)	
Rated Frequency (Hz)	2,400	
Operating Voltage (V)	MAX8	MAX15
Operating Temperature (°C)	-40~+85	
Storage Temperature (°C)	-40~+85	
Mass (g)	2	

※Value applying rated voltage(2,400Hz, 1/2 duty, square wave)

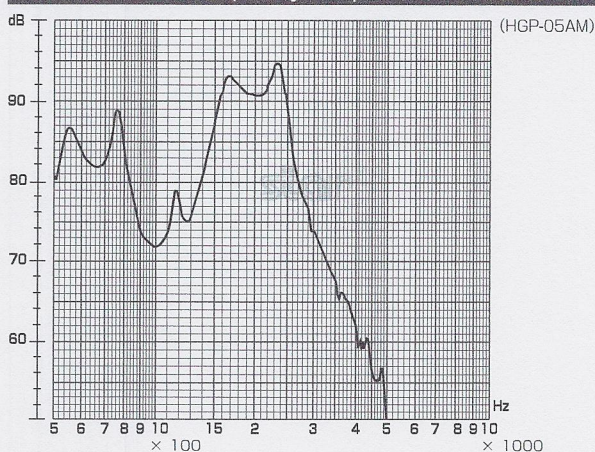
Dimensions [size : φ12×9mm]

unit : mm/housing material : PPE-M



Dip Wide Frequency Low Case Color : blue
Patent RoHS

Frequency Response



applied voltage : 5V, square wave : 1/2 duty,
distance for measurement : 10cm

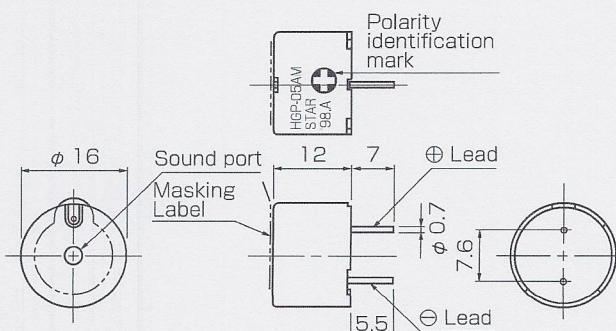
Specifications

Type	HGP-05AM	HGP-12AM
Rated Voltage (V)	5	12
※ Mean Current Consumption (mA)	MAX70(TYP55)	MAX50(TYP30)
Coil Resistance (Ω)	28±6	135±20
※ SPL at MIN10cm (dBA)	MIN85(TYP90)	MIN85(TYP91)
Frequency Band (Hz)	1,700~2,200	
Operating Voltage (V)	MAX8	MAX15
Operating Temperature (°C)	-40~+90	
Storage Temperature (°C)	-40~+100	
Mass (g)	4	

※Value applying rated voltage(2,000Hz, 1/2 duty, square wave)

Dimensions [size : φ16×12mm]

unit : mm/housing material : PPE-M



Magnetic Sounder

Reflow type

Non-washable type

Washable type

Magnetic Buzzer

Electric Sound type (Washable)

Vibrating Hammer type (Non-washable)

Dynamic Speaker (Non-washable)

Technical data

◆Non-washable type

Type	Model	Dimensions (mm)	Rated Voltage (V)	Operating Voltage (V)	Rated Frequency (Hz)	SPL (dBA) <MIN(10cm)>	Frequency Band (Hz) <MIN80dB>	Mean Current Consumption (mA) <MAX>	Operating Temperature (°C)	Mass (g)	Page
QMB-105	QMB-105P	φ12×5.4	1.5	~2	2,048	70	—	10	-20~+60	2	11
QMB-108	QMB-108P	φ12×7.5	1.5	~2	2,743	85	—	60	-20~+60	1.6	11
QMB-111	QMB-111PN	φ12×8.5	1.5	~2	2,048	80	—	10	-20~+60	2	12
	QMB-111GPN		1.5	~2	2,048	85	—	35	-20~+60	2	12
	QMB-111PC		5	~5	2,000	85	—	40	-20~+60	2	12
PMX-06	PMX-06B	φ12×5.8	1.5	~2	2,731	83	—	70	-20~+60	2	12
PMX-04B	PMX-04B	φ12×7.5	1.5	~2	2,731	85	—	70	-20~+60	2	13



QMB-105P



QMB-108P



QMB-111PN
QMB-111GPN
QMB-111PC



PMX-06B



PMX-04B

◆Washable type (Note 3)

Type	Model	Dimensions (mm)	Rated Voltage (V)	Operating Voltage (V)	Rated Frequency (Hz)	SPL (dBA) <MIN(10cm)>	Frequency Band (Hz) <MIN80dB>	Mean Current Consumption (mA) <MAX>	Operating Temperature (°C)	Mass (g)	Page
QMX	QMX-05	φ12×9	5	~8	2,400	85	—	40	-40~+85	2	14
	QMX-12		12	~15	2,400	85	—	40	-40~+85	2	14
HGP	HGP-05AM	φ16×12	5	~8	—	85	1,700~2,200	70	-40~+90	4	14
	HGP-12AM		12	~15	—	85	1,700~2,200	50	-40~+90	4	14
RMX	RMX-06	φ16×14	6	~12	2,048	85	2,000~3,000	40	-40~+85	5	15
	RMX-12Y		12	~18	2,048	85	2,000~3,000	40	-40~+85	5	15
QMB	QMB-06S/L	φ16×14	6	~12	2,048	85	—	40	-40~+100	7	15
	QMB-12S/L		12	~18	2,048	85	—	40	-40~+85	7	15
TMX	TMX-12F	φ25×18	12	~16	850	95	—	40	-40~+85	9	16
	TMX-03H	φ25×12.5	3.6	~5	1,500	106	—	300	-40~+80	10	16
	TMX-05H	φ25×12.5	5	~6	1,500	104	—	80	-40~+85	9	16
	TMX-12H	φ25×12.5	12	~16	1,500	104	—	55	-40~+85	9	16
TMX-A3	TMX-05A3	φ25×12.5	5	~5	730	85	—	80	-40~+85	9	17
TMX-S3	TMX-06S3	φ25×12.5	6	~8	1,000	85	1,000~1,500	75	-40~+85	9	17
	TMX-12S3		12	~14	1,000	85	1,000~1,500	55	-40~+85	9	17



QMX-05
QMX-12



HGP-05AM
HGP-12AM



RMX-06
RMX-12Y



QMB-06S/L
QMB-12S/L



TMX-12F



TMX-03H
TMX-05H
TMX-12H



TMX-05A3



TMX-06S3
TMX-12S3

Note 1 : Please contact us for conditions. These are Non-washable.

Note 2 : (dBA) = dB(A-weighting)

Note 3 : Please refer to page 27.

SOUNDER