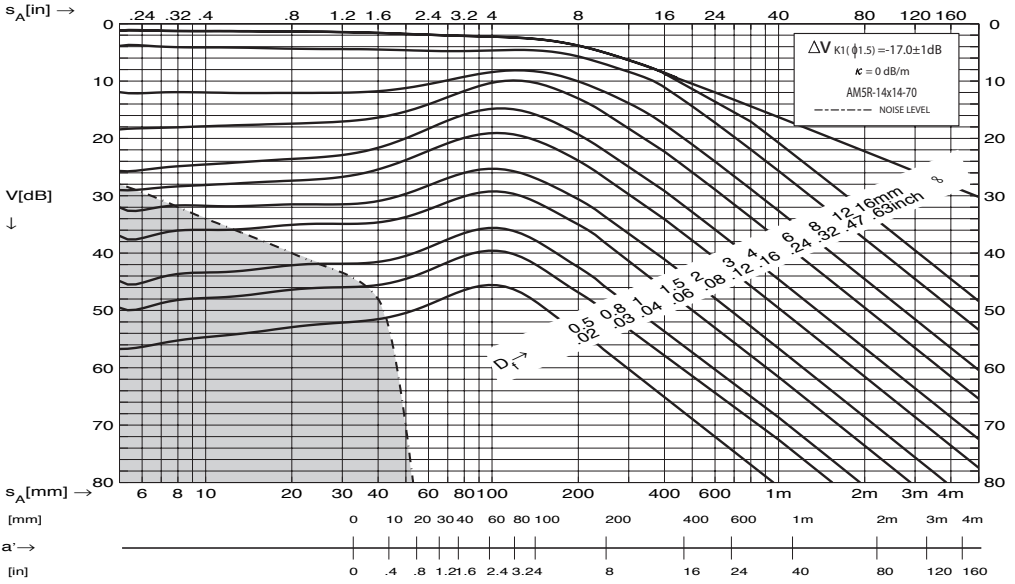
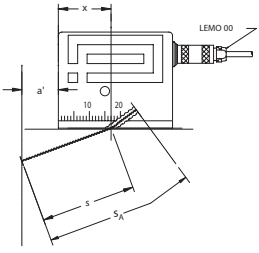

AM5R-14X14-70
$s_A$[in] →
.24 .32 .4 .8 1.2 1.6 2.4 3.2 4 8 16 24 40 80 120 160
V[dB]
↓
$\Delta V_{K1(\phi 1.5)}$=-17.0±1dB
κ = 0 dB/m
AM5R-14x14-70
NOISE LEVEL
12 16mm .63inch
8 .32
6 .24
4 .16
3 .12
2 .08
1.5 .06
1 .04
0.8 .03
0.5 .02
D
$s_A$[mm] →
6 8 10 20 30 40 60 80 100 200 400 600 1m 2m 3m 4m
[mm]
0 10 20 30 40 60 80 100 200 400 600 1m 2m 3m 4m
a' →
[in]
0 .4 .8 1.2 1.6 2.4 3.2 4 8 16 24 40 80 120 160

# AM5R-14X14-70

| parameter | nominal | upper (+) | lower (-) | unit |
|---|---|---|---|---|
| $f_c$[1], $f_0$[2] | 5.0 | 5.5 | 4.5 | MHz |
| BW[1], $\Delta f_{rel}$[2] | 40 | 55 | 25 | % |
| Z | 65 | 90 | 40 | Ω |
| Φ | 60 | 80 | 40 | ° |
| N | 98 | 113 | 83 | mm |
| $W_{a6}$ | 2.1 | 2.2 | 2.0 | mm |
| $W_{b6}$ | 3.3 | 3.6 | 3.0 | mm |
| a | 14.0 | 14.0 | 13.9 | mm |
| $a_{eff}$ | 13.6 | 13.8 | 13.4 | mm |
| b | 14.0 | 14.0 | 13.9 | mm |
| $b_{eff}$ | 13.6 | 13.8 | 13.4 | mm |
| $\alpha_{(3255m/s)}$ | 70 | 72 | 68 | ° |
| $\Delta\alpha/\Delta T$ | 1.2 | 1.5 | 0.9 | °/10°C |
| $lv_{(2743m/s)}$ | 16.0 | 17.0 | 15.0 | mm |
| δ | 0 | +1 | -1 | ° |
| e | 0 | +1 | -1 | mm |
| x | 17 | 18 | 16 | mm |
| $\gamma_{a6}$ | 1.2 | 1.4 | 1.0 | ° |
| $\gamma_{b6}$ | 2.6 | 2.9 | 2.3 | ° |
| M | 3 | -- | -- | mm |
| $T_r$ | -20/+60 | -- | -- | °C |
| Waveform duration[1], Pulse duration[2], Echobreite[2], Largeur de l'echo[2] | | | | |
| -20dB: | 1.0 | 1.1 | -- | us |

1: ASTM E1065 2: prEN 12668-2
3: EN 1330-4:2000 4: EN 583-2:2001




$s_V$ = 13.5 ±1mm
$s = s_A - s_V$

$s_v$ is the sound field equivalent of delay path length (lv)

$s_v$ entspricht im Schallfeld der Länge der Vorlaufstrecke lv

$s_v$ est l'équivalent du champ acoustique de la longueur de la ligne de retard