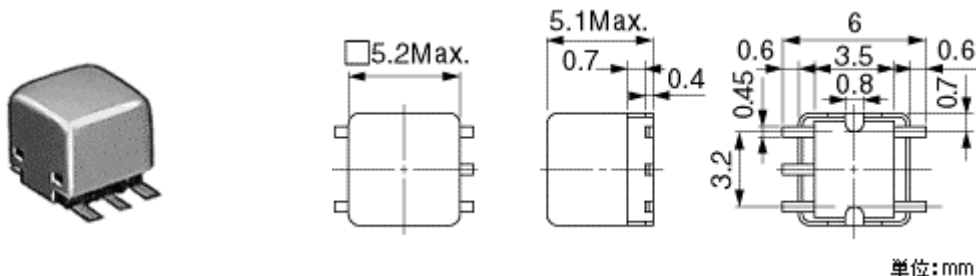


TYPE 4FUS



Features

- Ultra-compact LC block filters based on 4mm square coil units. Suitable for surface mounting.
- Basic units will take up to 2 built-in capacitors.
- Adjustable and non-adjustable types available. Up to three units may be used in combination.
- Highly adaptable – suitable for highpass, lowpass, and bandpass filters, delay lines, equalizers, etc.
- Shield case minimizes interference with other components, allowing high-density layout.
- Suitable for surface mounting (reflow soldering).

Applications

- Developed for use in the increasingly compact world of video equipment.

Specifications

| | |
|-------------------------------|----------------------|
| Effective bandwidth | 0.1 ~ 15MHz |
| Maximum inductance | 600 μ H |
| Approx. Q value under no load | 40 |
| Internal capacitor | 4~750pF up to 2 int. |
| Max. no. combinable | 3 |

Filters for RGB Encoder

| Toko part no. | Application | Impedance | Fig. |
|-----------------|--------------|-----------|------|
| H354BAI-6544 | 3.58MHz BPF | 1kohm | 1 |
| H354BAI-6545 | 4.43MHz BPF | 1kohm | 2 |
| H354LAI-3387DDD | Y Delay Line | 1kohm | 3 |

Filters for Digital Encoder

| Toko part no. | Impedance | Fig. |
|---------------|-----------|------|
| H354LAI-8000 | 150ohm | 4 |

Filters for Digital CATV

| Toko part no. | Application | Fig. |
|---------------|----------------|------|
| H354LAI-8000 | Y, C, Comp LPF | 4 |

Wide-band Delay Lines

| Toko part no. | Group delay | Impedance | Fig. |
|---------------|-------------|-----------|------|
| TG354EDH-6882 | 1ns | 150 ohm | 5 |
| TG354EDH-6883 | 2ns | 150 ohm | 6 |
| TG354EDH-6884 | 3ns | 150 ohm | 7 |
| TG354EDH-6885 | 4ns | 150 ohm | 8 |
| TG354EDH-6886 | 5ns | 150 ohm | 9 |
| TG354EDH-6887 | 6ns | 150 ohm | 10 |
| TG354EDH-6888 | 7ns | 150 ohm | 11 |
| TG354EDH-6889 | 8ns | 150 ohm | 12 |
| TG354EDH-6890 | 9ns | 150 ohm | 13 |
| TG354EDH-6891 | 10ns | 150 ohm | 14 |

Low Pass Filters

| Toko part no. | Cutoff Freq. | Group delay | Trap | Fig. |
|---------------|--------------|-------------|------------|------|
| H354LAI-2258 | 1.1MHz | 300ns | 3.58MHz | 15 |
| H354LBI-2542 | 1.2MHz | 220ns | 3.58MHz | 16 |
| H354LAI-3056 | 0.5MHz | 440ns | 4.43MHz | 17 |
| H354LCI-2913 | 0.7MHz | 360ns | 4.43MHz | 18 |
| H354LNI-2882 | 1.0MHz | 260ns | 4.43MHz | 19 |
| H354LAI-4862 | 1.2MHz | 280ns | 4.43MHz | 20 |
| H354LAI-4968 | 1.3MHz | 250ns | 4.43MHz | 21 |
| H354LBI-3357 | 1.0MHz | 330ns | 7.16MHz | 22 |
| H354LBI-3284 | 1.5MHz | 210ns | 7.16MHz | 23 |
| H354LAI-4435 | 2.8MHz | 120ns | 10.7MHz | 24 |
| H354LAI-4945 | 1.2MHz | 260ns | | 25 |
| H354LAI-4703 | 1.3MHz | 390ns | | 26 |
| H354LAI-4626 | 1.5MHz | 220ns | 14.2MHz | 27 |
| H354LAI-4679 | 2.0MHz | 150ns | 5.4MHz | 28 |
| H354LAI-4736 | 2.5MHz | 150ns | 4.8/8.4MHz | 29 |
| H354LAI-3358 | 3.0MHz | 100ns | | 30 |
| H354LAI-4875 | 3.5MHz | 90ns | | 31 |
| G354LAI-2997 | 4.5MHz | 120ns | | 32 |
| H354LAI-3158 | 5.0MHz | 80ns | | 33 |
| H354LAI-4402 | 5.5MHz | 65ns | 9.2MHz | 34 |
| H354LAI-3159 | 6.0MHz | 70ns | | 35 |
| G354LAI-3453 | 7.0MHz | 50ns | | 36 |
| H354LAI-1226 | 8.0MHz | 70ns | | 37 |
| G354LAI-3451 | 9.0MHz | 30ns | | 38 |

Band Pass Filters

| Toko part no. | Center Freq. | Bandwidth (-3dB) | Group delay | Fig. |
|---------------|--------------|------------------|-------------|------|
| H354BAI-4184 | 3.58MHz | 3.8MHz | 100ns | 39 |
| H354BAI-2660 | 3.58MHz | 3.0MHz | 120ns | 40 |
| H354BAI-4163 | 3.58MHz | 2.8MHz | 150ns | 41 |
| H354BAI-3200 | 3.58MHz | 2.2MHz | 200ns | 42 |
| H354BAI-4404 | 3.58MHz | 1.8MHz | 220ns | 43 |
| H354BAI-2998 | 3.58MHz | 1.8MHz | 240ns | 44 |
| H354BAI-3946 | 3.58MHz | 1.2MHz | 270ns | 45 |
| H354BAI-3195 | 3.58MHz | 1.4MHz | 300ns | 46 |
| H354BAI-3160 | 3.58MHz | 1.3MHz | 350ns | 47 |
| H354BAI-3927 | 3.58MHz | 1.1MHz | 400ns | 48 |
| H354BAI-2771 | 3.58MHz | 1.0MHz | 450ns | 49 |
| H354BAI-4601 | 3.58MHz | 0.8MHz | 510ns | 50 |
| H354BAI-3287 | 4.43MHz | 2.1MHz | 150ns | 51 |
| H354BAI-3989 | 4.43MHz | 2.3MHz | 200ns | 52 |
| H354BAI-1146 | 4.43MHz | 1.6MHz | 250ns | 53 |
| H354BAI-1748 | 4.43MHz | 1.6MHz | 280ns | 54 |
| H354BAI-4214 | 4.43MHz | 1.1MHz | 380ns | 55 |

Equalizing Transformers

| Toko part no. | Bandwidth | Group delay | Fig. |
|---------------|-----------|-------------|------|
| G354EAI-4714 | 1.5MHz | 60ns | 56 |
| G354EAI-3049 | 5.0MHz | 80ns | 57 |
| G354EAI-4346 | 2.0MHz | 150ns | 58 |
| TG354EAI-5111 | 1.0MHz | 180ns | 59 |
| G354EAI-4947 | 1.5MHz | 220ns | 60 |
| G354EAI-1089 | 1.5MHz | 240ns | 61 |
| G354EAI-1388 | 1.5MHz | 250ns | 62 |
| G354EAI-4249 | 0.5MHz | 400ns | 63 |
| G354EAI-4647 | 0.4MHz | 500ns | 64 |
| G354EAI-4648 | 0.4MHz | 610ns | 65 |

Typical Characteristics

Fig.1 H354BAI-6544

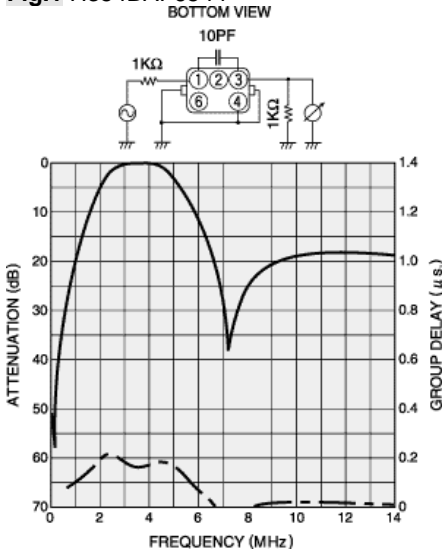


Fig.2 H354BAI-6545

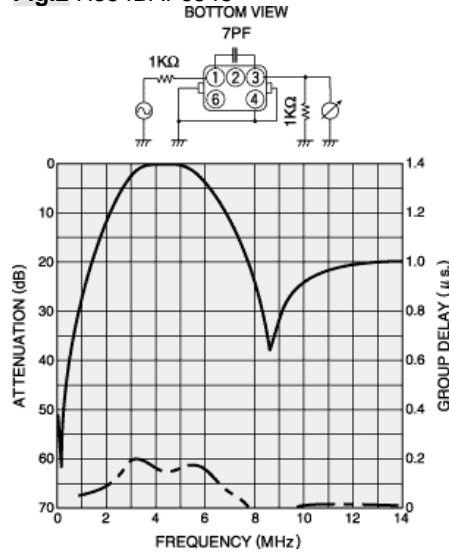
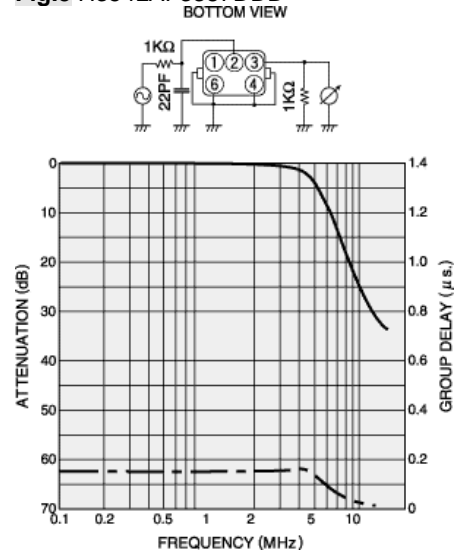


Fig.3 H354LAI-3387DDD



Typical Characteristics

Fig.4 H354LAI-8000

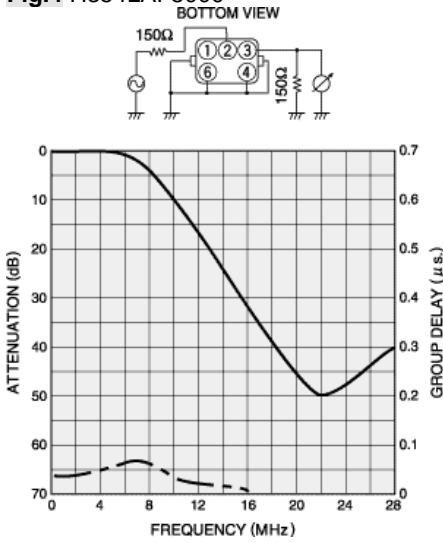


Fig.5 TG354EDH-6882

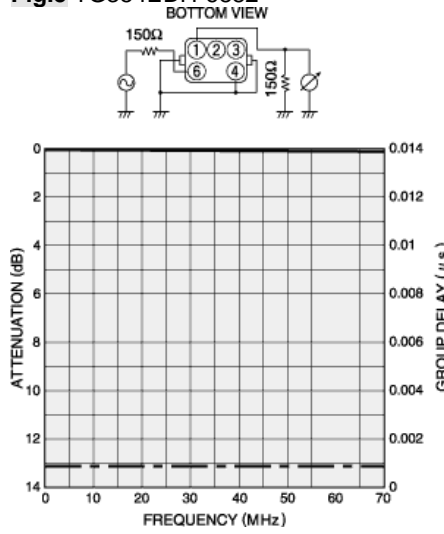


Fig.6 TG354EDH-6883

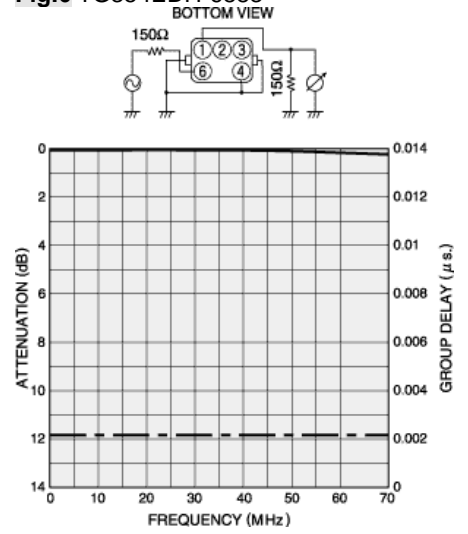


Fig.7 TG354EDH-6884

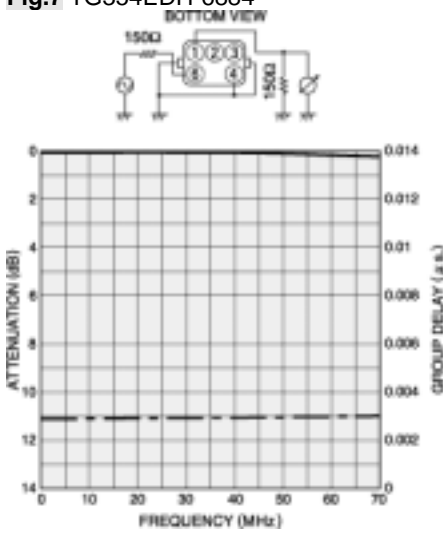


Fig.8 TG354EDH-6885

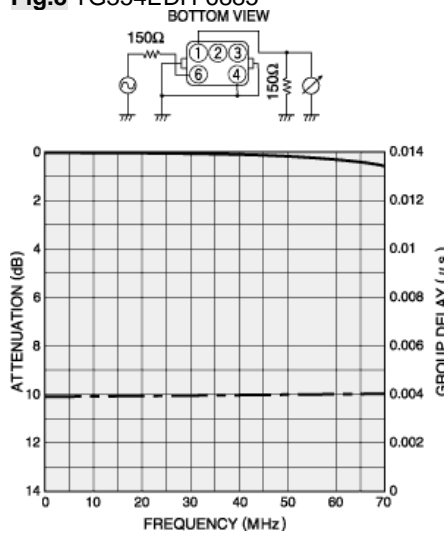


Fig.9 TG354EDH-6886

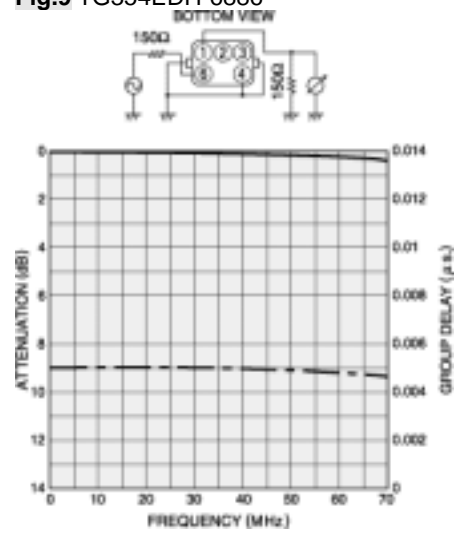


Fig.10 TG354EDH-6887

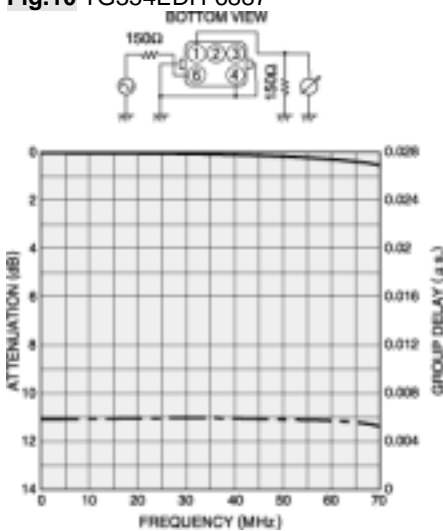


Fig.11 TG354EDH-6888

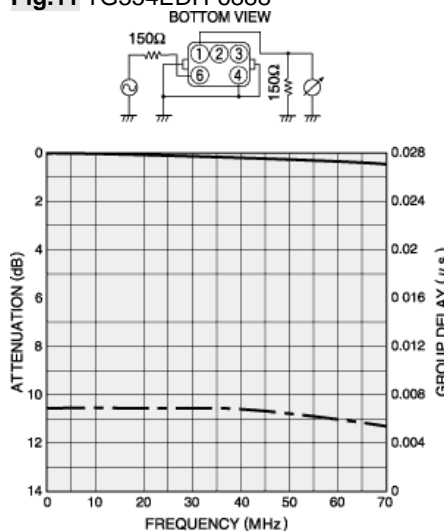
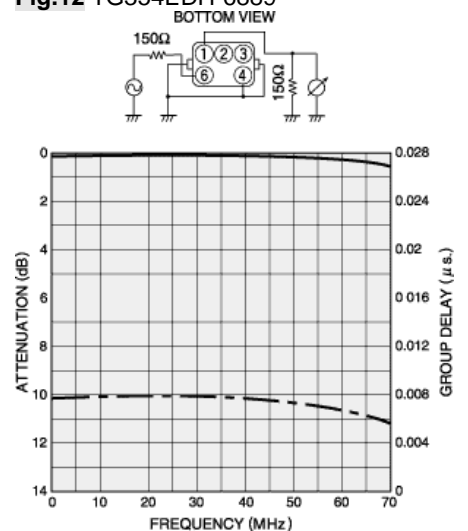


Fig.12 TG354EDH-6889



Typical Characteristics

Fig.13 TG354EDH-6890

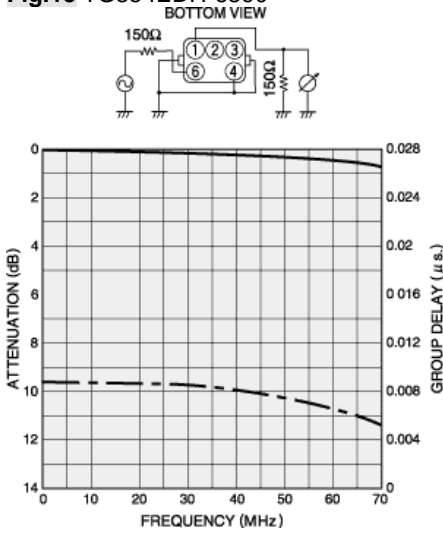


Fig.14 TG354EDH-6891

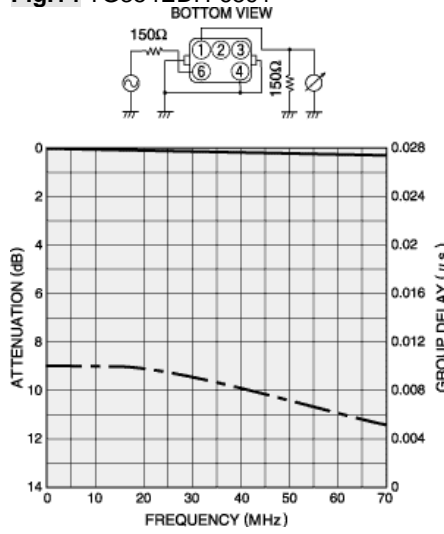


Fig.15 H354LAI-2258

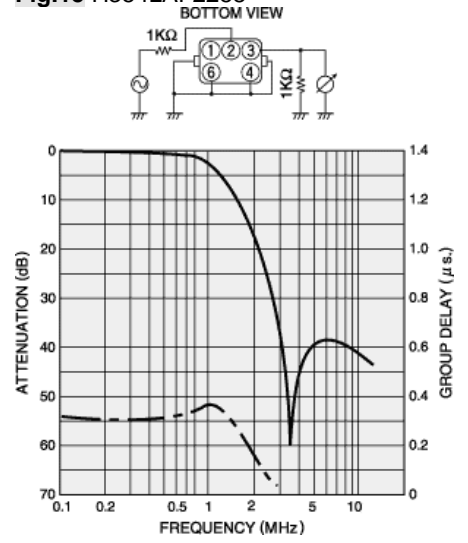


Fig.16 H354LBI-2542

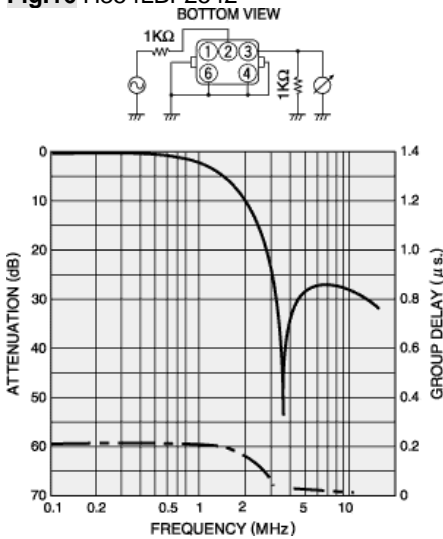


Fig.17 H354LAI-3056

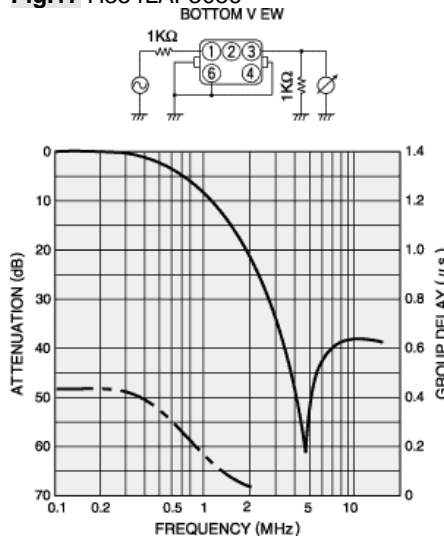


Fig.18 H354LCI-2913

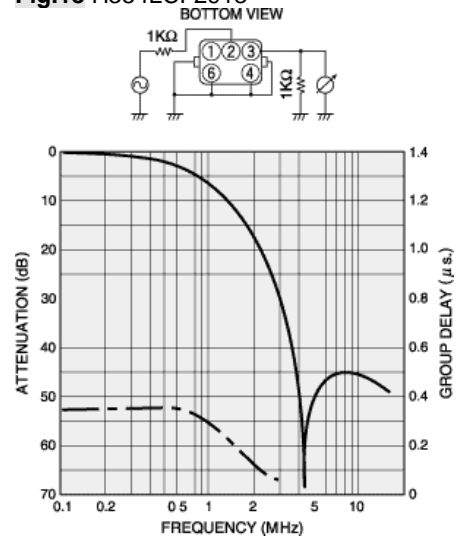


Fig.19 H354LNI-2882

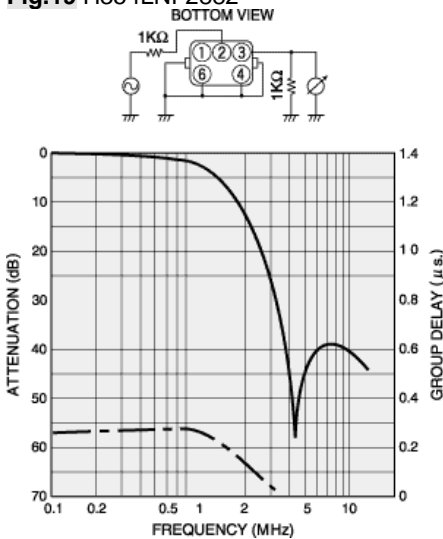


Fig.20 H354LAI-4862

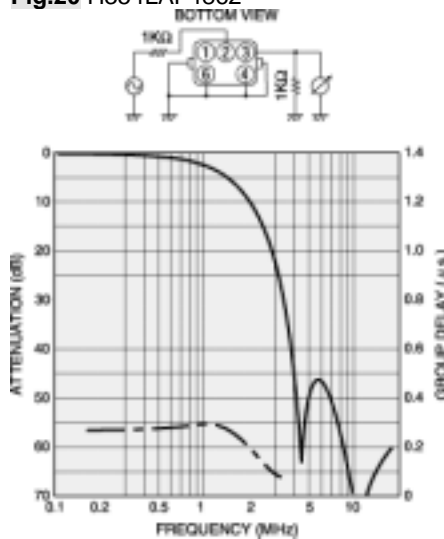
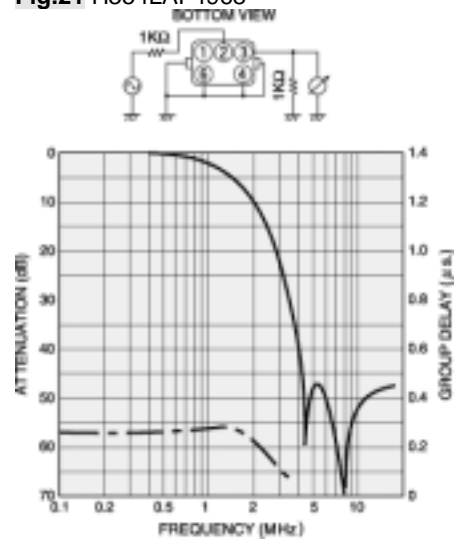


Fig.21 H354LAI-4968



Typical Characteristics

Fig.22 H354LBI-3357

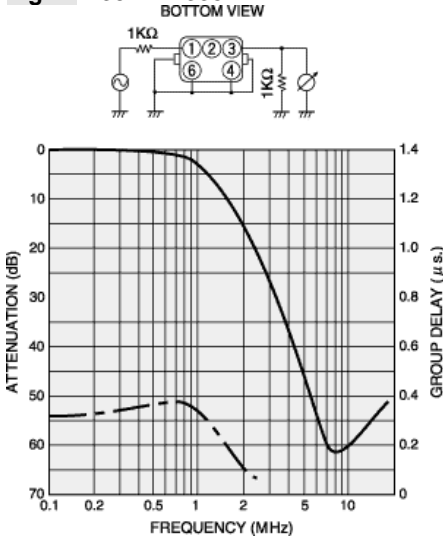


Fig.23 H354LBI-3284

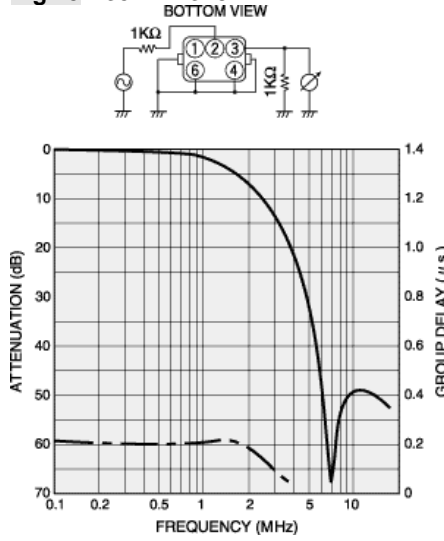


Fig.24 H354LAI-4435

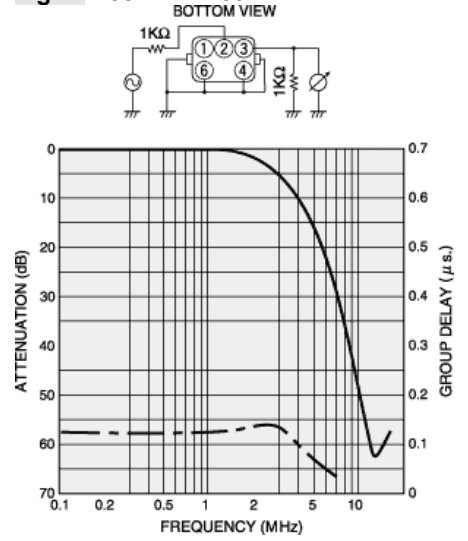


Fig.25 H354LAI-4945

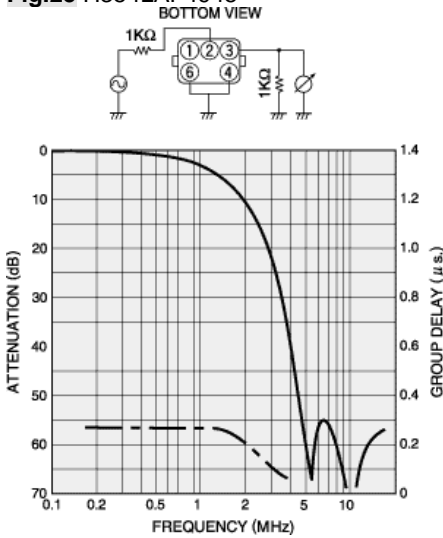


Fig.26 H354LAI-4703

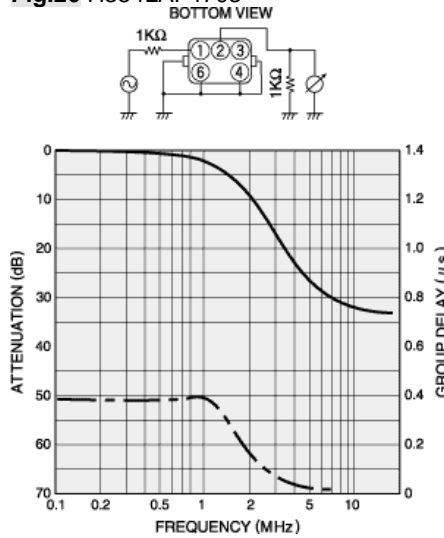


Fig.27 H354LAI-4626

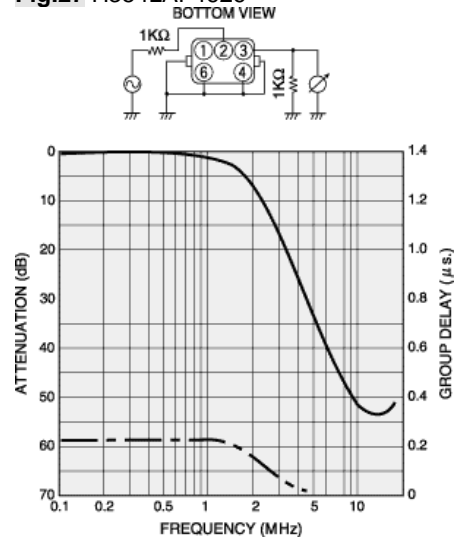


Fig.28 H354LAI-4679

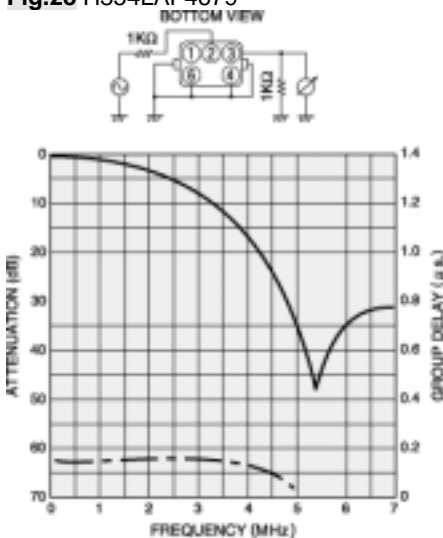


Fig.29 H354LAI-4736

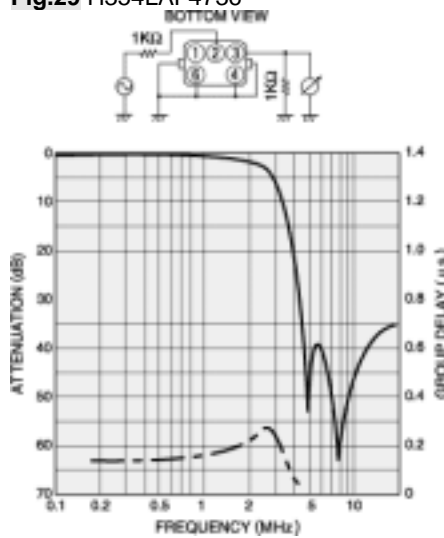
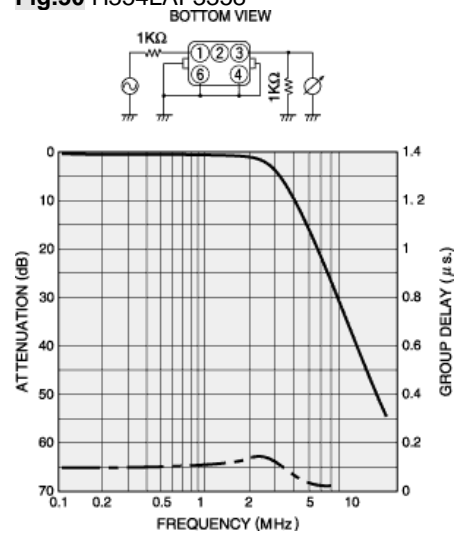


Fig.30 H354LAI-3358



Typical Characteristics

Fig.31 H354LAI-4875

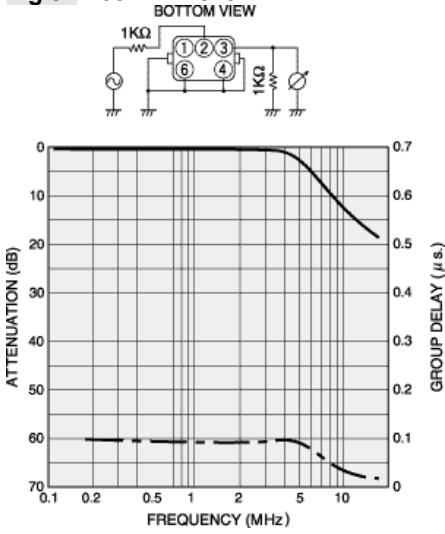


Fig.32 G354LAI-2997

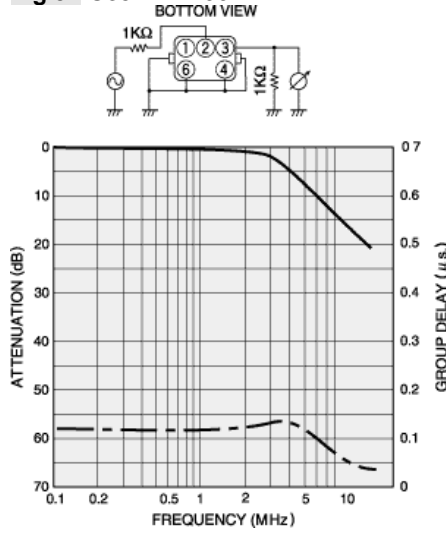


Fig.33 H354LAI-3158

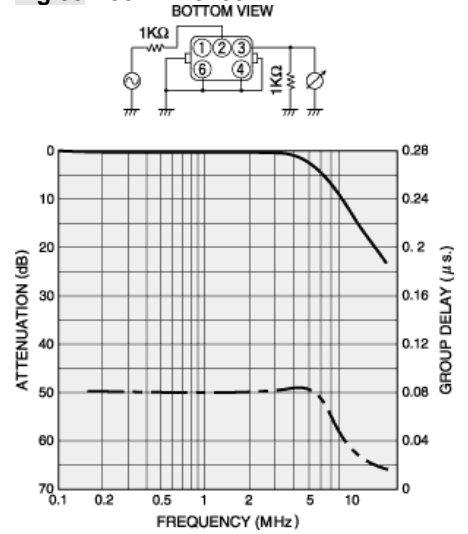


Fig.34 H354LAI-4402

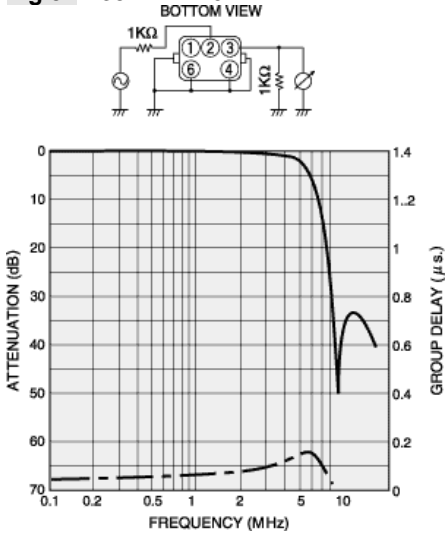


Fig.35 H354LAI-3159

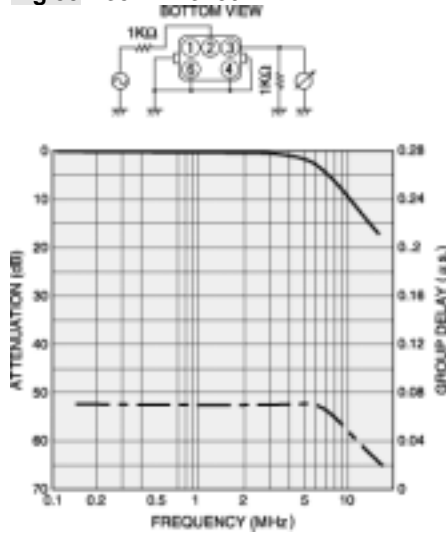


Fig.36 G354LAI-3453

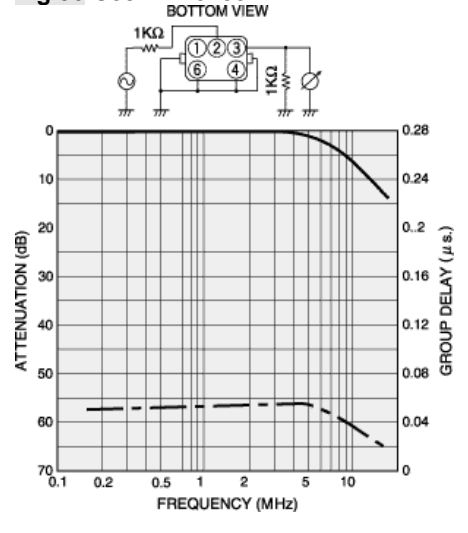


Fig.37 H354LAI-1226

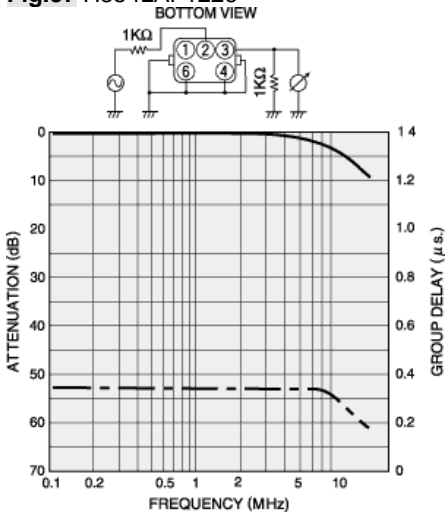


Fig.38 G354LAI-3451

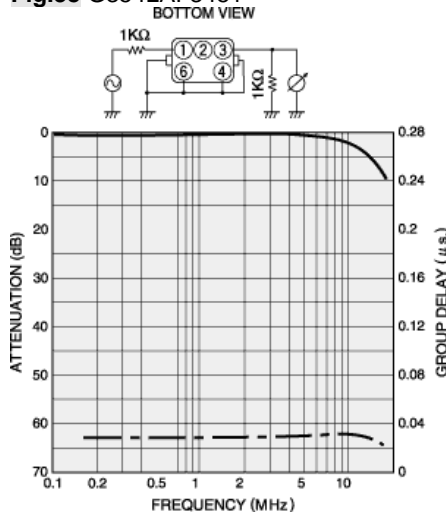
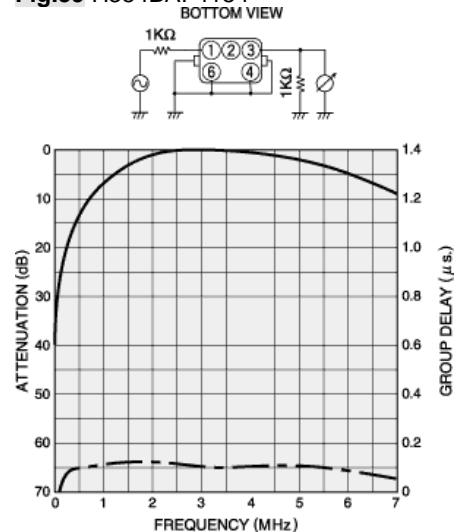


Fig.39 H354BAI-4184



Typical Characteristics

Fig.40 H354BAI-2660

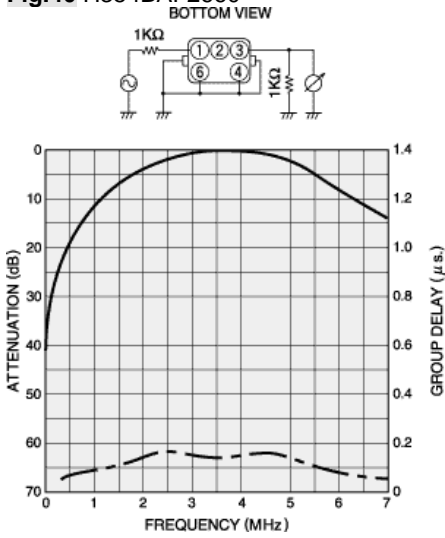


Fig.41 H354BAI-4163

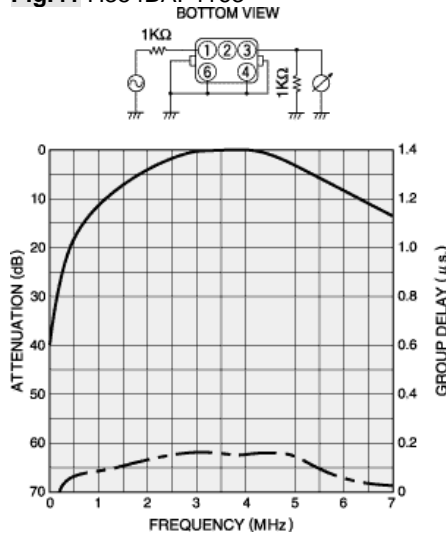


Fig.42 H354BAI-3200

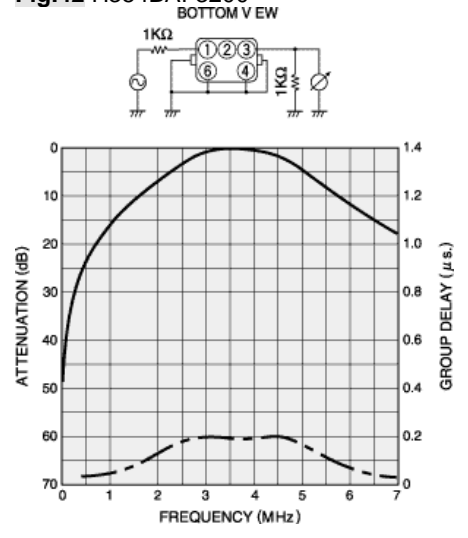


Fig.43 H354BAI-4404

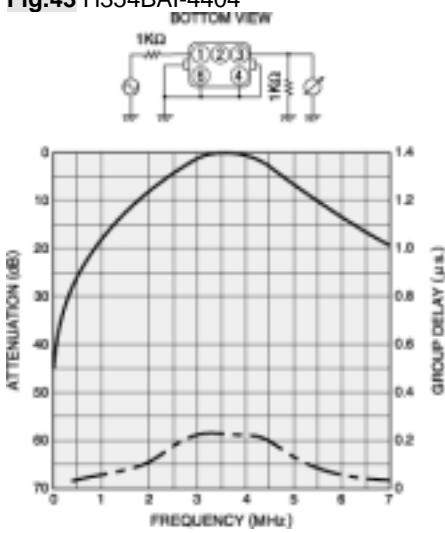


Fig.44 H354BAI-2998

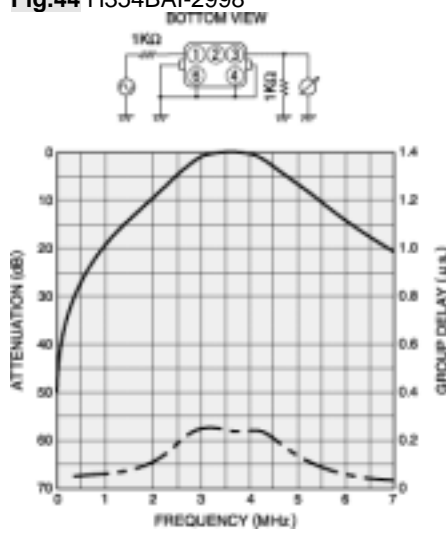


Fig.45 H354BAI-3946

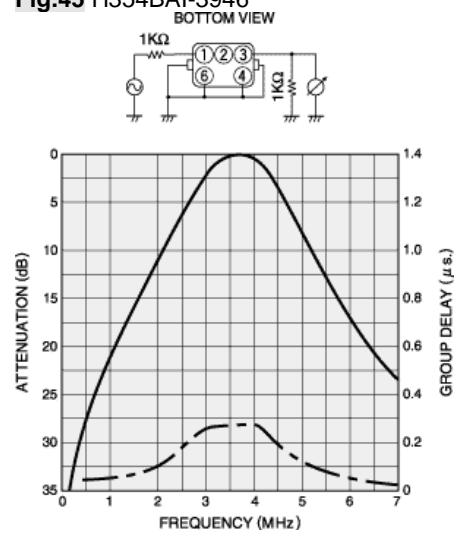


Fig.46 H354BAI-3195

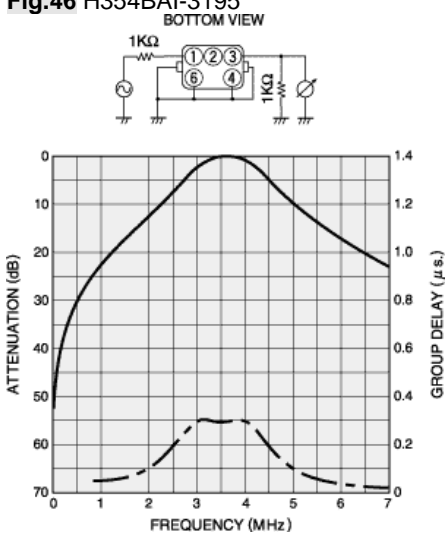


Fig.47 H354BAI-3160

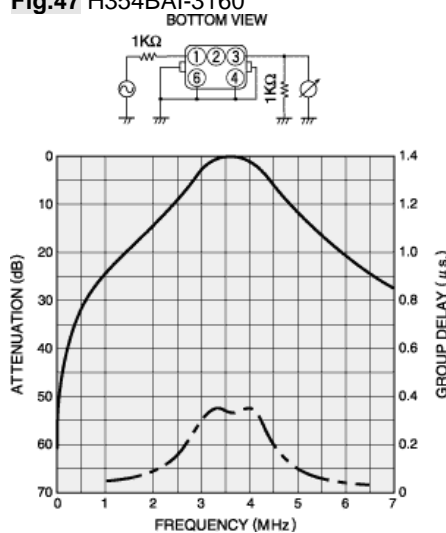
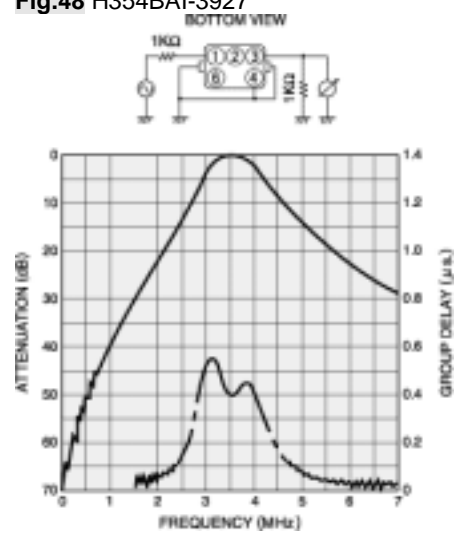


Fig.48 H354BAI-3927



Typical Characteristics

Fig.49 H354BAI-2771
BOTTOM VIEW

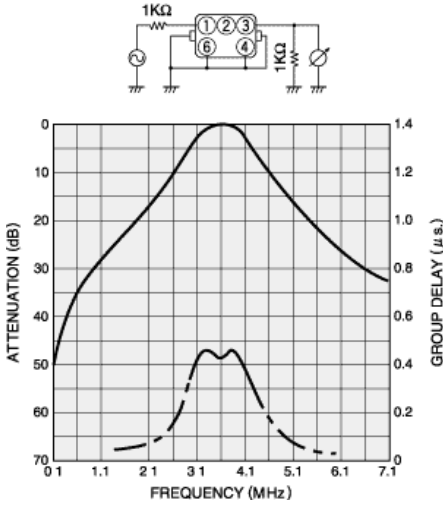


Fig.50 H354BAI-4601
BOTTOM VIEW

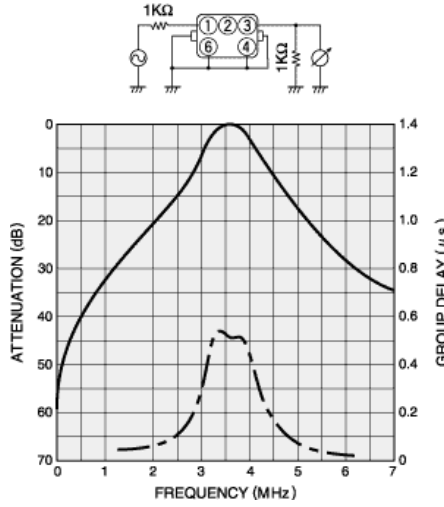


Fig.51 H354BAI-3287
BOTTOM VIEW

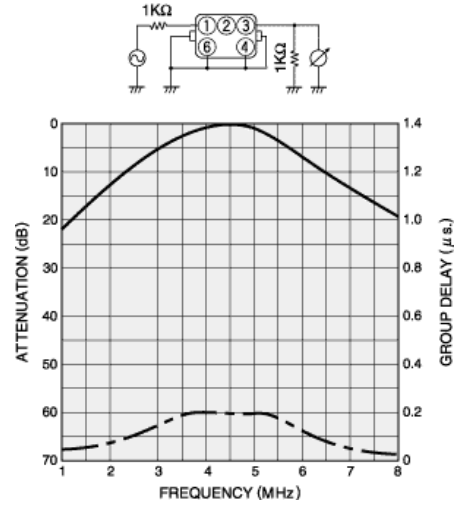


Fig.52 H354BAI-3989
BOTTOM VIEW

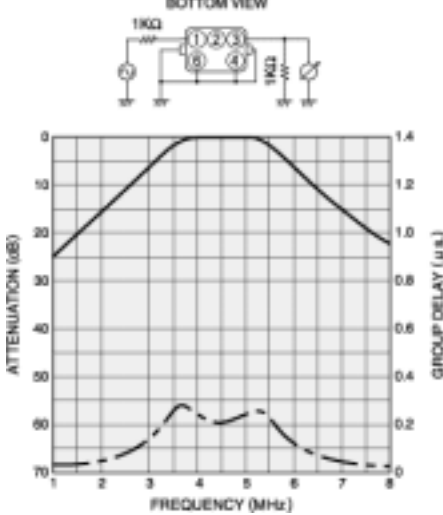


Fig.53 H354BAI-1146
BOTTOM VIEW

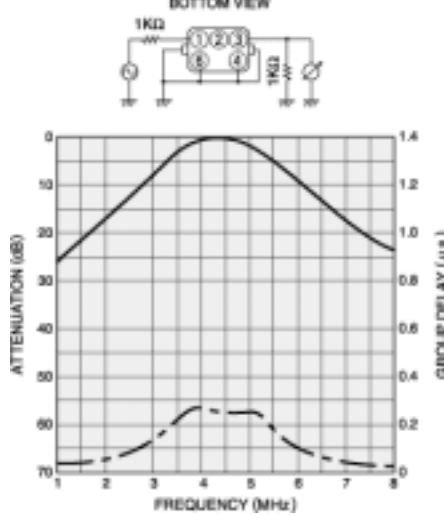


Fig.54 H354BAI-1748
BOTTOM VIEW

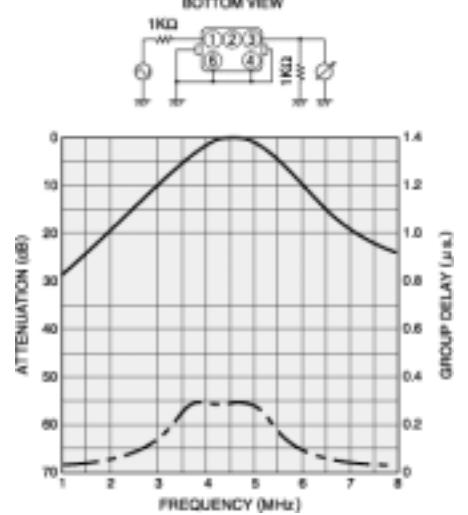


Fig.55 H354BAI-4214
BOTTOM VIEW

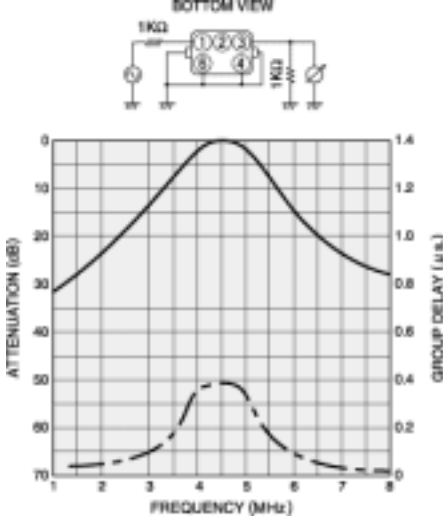


Fig.56 G354EAI-4714
BOTTOM VIEW

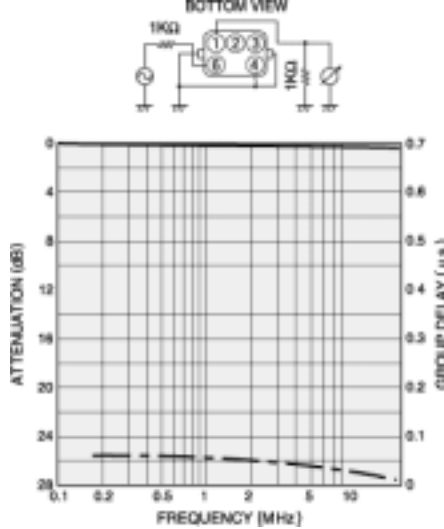
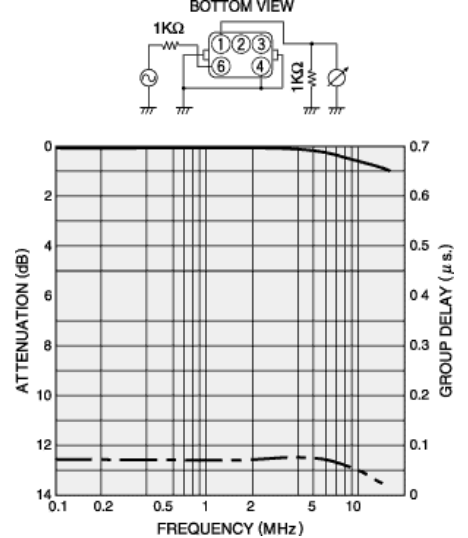


Fig.57 G354EAI-3049
BOTTOM VIEW



Typical Characteristics

Fig.58 G354EAI-4346

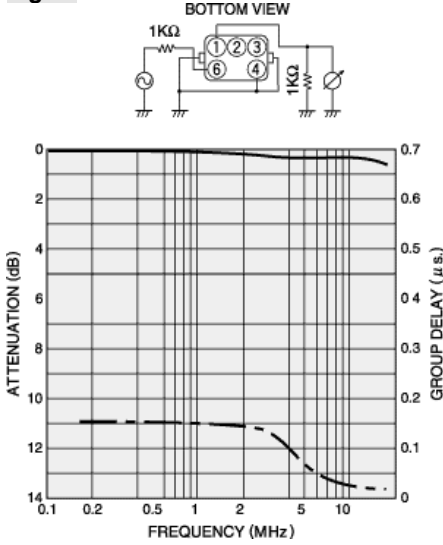


Fig.59 TG354EAI-5111

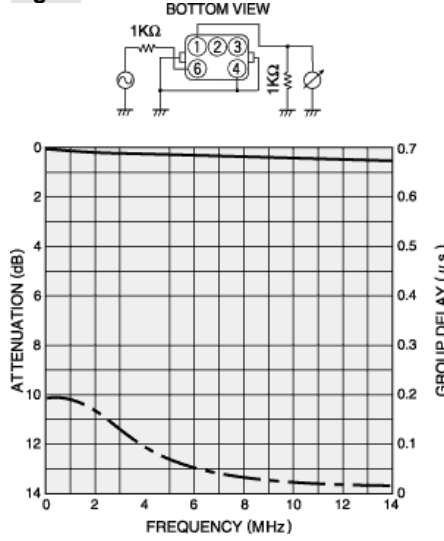


Fig.60 G354EAI-4947

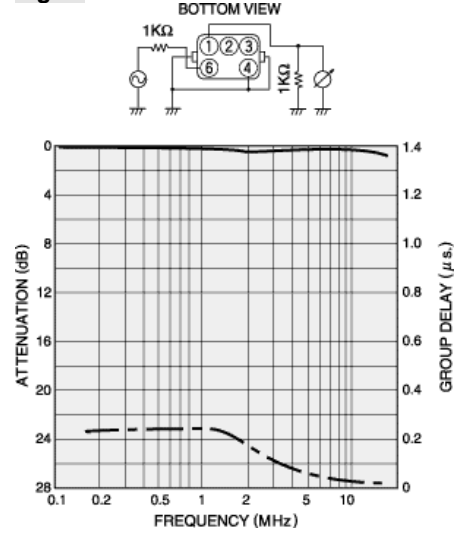


Fig.61 G354EAI-1089

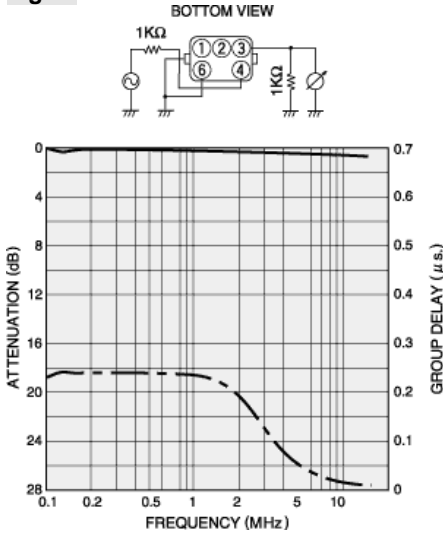


Fig.62 G354EAI-1388

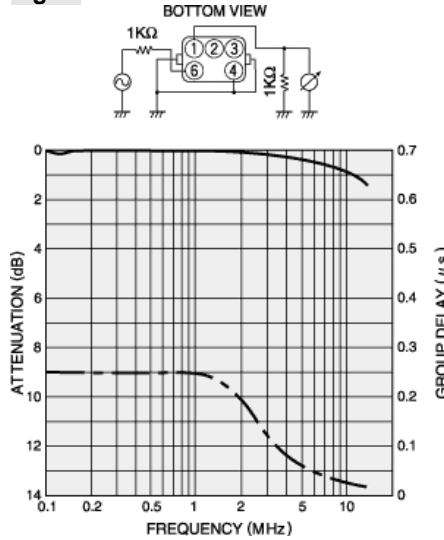


Fig.63 G354EAI-4249

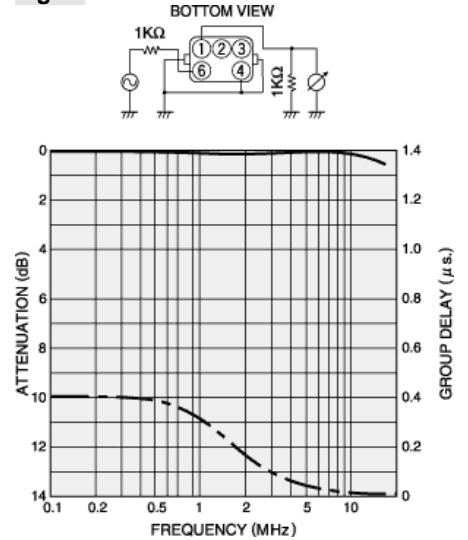


Fig.64 G354EAI-4647

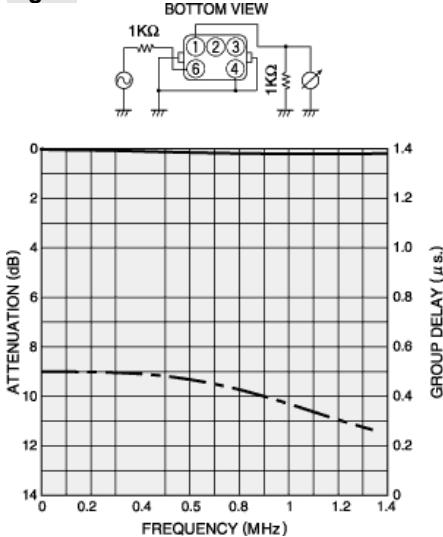


Fig.65 G354EAI-4648

