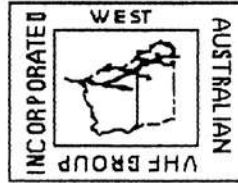


OFFICIAL NEWSLETTER FOR THE WEST AUSTRALIAN VHF GROUP (INC)
 P.O. BOX 189, APPECROSS WA 6153.

MEETINGS ON THE FOURTH MONDAY OF EACH MONTH AT WIRELESS HILL
 TELECOMMUNICATIONS MUSEUM, ALMONDBURY RD, ARDROSS

VK6WH



VK6WH

PATRON MR. F.V. DAYSON

PRESIDENT	BOB BLINCO	VK6KRC	H 277 7049	SECRETARY	BOB PINE	VK6ZFY	H 339 3273
VICE PRES.	PETER TAIT	VK6ZPT		TREASURER	BERT MEUWISSEN	VK6ME	H 457 3892
COUNCILLOR	TERRY LEITCH	VK6ZLT	H 332 7008	BULLETIN ED.	COLIN MURRAY	VK6ZCR	H 331 1398
COUNCILLOR	PETER MARTIN	VK6JAE		MUSEUM REP	BOB PINE	VK6ZFY	
COUNCILLOR	COLIN MURRAY	VK6ZCR		MUSEUM REP.	TOM BERG	VK6ZAF	
ACTIVITIES	TERRY LEITCH	VK6ZLT		PUBLICITY	PETER MARTIN	VK6JAE	
MATERIALS	COLIN MURRAY	VK6ZCR		LIBRARIAN	ILMAR BELTS	VK6AIB	

CALENDAR

SEPTEMBER	16 COMMITTEE MEETING	NOVEMBER	18 COMMITTEE MEETING
	21 FOX HUNT		23 FOX HUNT
	23 GENERAL MEETING		25 GENERAL MEETING
OCTOBER	21 COMMITTEE MEETING	DECEMBER	16 COMMITTEE MEETING (NOT LIKELY)
	26 FOX HUNT		21 FOX HUNT (NOT LIKELY)
	28 ANNUAL GENERAL MEETING		23 GENERAL MEETING (NOT LIKELY)

=====

SEPTEMBER 1991

ROB VK6ZRT HAS GRACIOUSLY DONE SOME REPAIRS TO THE BUSSELTON BEACON DUE TO A FAILURE IN THE POWER SUPPLY, THE COMMITTEE AND MEMBERS WOULD LIKE TO THANK HIM FOR HIS TIME AND EFFORT. THANKS ROB. (ED.)

MOCOM 70 radio's have a 50watt p.a. in them and the VHF group has a quantity of these for sale too. They can be made to work in the 2mtr band.

THE VHF GROUP HAS ACQUIRED A QUANTITY OF LDF50 COAX AND WILL BE AVAILABLE FROM THIS MONTHS MEETING SO COME ALONG AND PUT IN YOUR ORDER IT'S CHEAP AND GOOD QUALITY TO!. \$3.00 PER METRE.

GALILEO STATUS REPORT

August 22, 1991

The Galileo spacecraft is operating normally in the dual-spin mode; transmitting coded telemetry at 40 bps.

Today the AACS (Attitude and Articulation Control Subsystem) off-line memory will be loaded with the SCALPS parameters. This memory load will reestablish complete functional redundancy and assure that both AACS memories can support the GASPRAs attitude and instrument-pointing requirements.

Tomorrow, the Spacecraft Telemetry Modulation Unit will be commanded to the low frequency subcarrier mode and the data rate alternately commanded to 10 bps and 40 bps to test spacecraft to DSN (Deep Space Network) end-to-end performance in this mode. This configuration will be used during the GASPRA encounter to provide the best possible DSN supply.

MAGELLAN STATUS REPORT

August 22, 1991

Magellan spacecraft performance continues to be excellent.

Temperatures on the Propulsion Equipment Plate went to a maximum of 81.2 degrees C and leveled off. The stop mapping limit is currently 85 degrees C. A mapping quaternion to point the High Gain Antenna at the Sun instead of Venus was prepared as a contingency maneuver.

The spacecraft continues its series of over 171 successful star calibrations.

As of noon (PDT) today, Magellan has completed 2774 orbits and has performed radar mapping of the surface on 2398 orbits.

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ

2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJKKKKKZ

KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

A0-10

1 14129U 83 58 B 91239.11038513 .00000007 00000-0 99998-4 0 6933

2 14129 25.7190 128.1149 6051768 270.8804 24.7543 2.05882941 33708

U0-11

1 14781U 84 21 B 91240.10844362 .00002480 00000-0 44747-3 0 602

2 14781 97.8958 282.3064 0011667 307.4050 52.6234 14.67288150399997

RS-10/11

1 18129U 87 54 A 91240.75699637 .00000186 00000-0 19173-3 0 7945

2 18129 82.9287 5.2238 0011949 352.6003 7.4975 13.72208584209544

A0-13

1 19216U 88 51 B 91230.97425916 .00000125 00000-0 40574-2 0 2802

2 19216 56.8374 77.1572 7224176 262.4027 17.9419 2.09699897 24348

F0-20

1 20480U 90 13 C 91219.37029763 .00000010 00000-0 52577-4 0 2406

2 20480 99.0332 191.8269 0540566 185.4362 174.0698 12.83184864 70123

A0-21

1 21087U 91240.31899071 .00000154 00000-0 15067-3 0 1244

2 21087 82.9430 180.3597 0036893 58.7157 301.7603 13.74403523 28935

RS-12/13

1 21089U 91 7 A 91235.93216543 .00000112 00000-0 10712-3 0 1215
2 21089 82.9206 53.8820 0030829 89.8875 270.5814 13.73917319 27440

UO-14

1 20437U 90 5 B 91239.21240020 .00000856 00000-0 35238-3 0 4083
2 20437 98.6581 318.2428 0010956 322.3692 37.6713 14.29229190 83132

AO-16

1 20439U 90 5 D 91239.73337293 .00000611 00000-0 25564-3 0 3080
2 20439 98.6692 319.1474 0011376 323.7493 36.2918 14.29309208 83219

DO-17

1 20440U 90 5 E 91239.42916246 .00000675 00000-0 28033-3 0 3094
2 20440 98.6692 318.9032 0011695 325.1871 34.8597 14.29401470 83174

WO-18

1 20441U 90 5 F 91238.20734410 .00000552 00000-0 23199-3 0 3026
2 20441 98.6686 317.7389 0011919 328.3084 31.7385 14.29433638 83004

LO-19

1 20442U 90 5 G 91241.11771636 .00000645 00000-0 26802-3 0 3041
2 20442 98.6682 320.7031 0011984 318.8783 41.1494 14.29517274 83422

UO-22

1 21575U 91 50 B 91239.74301708 .00000859 00000-0 30896-3 0 126
2 21575 98.5427 313.1960 0008676 99.7871 260.4295 14.36138112 5988

NOAA-9

1 15427U 84123 A 91241.13972309 .00000713 00000-0 40194-3 0 8225
2 15427 99.1669 256.4107 0014265 217.2664 142.7472 14.13101935345829

NOAA-10

1 16969U 86 73 A 91240.55776477 .00000908 00000-0 40965-3 0 6675
2 16969 98.5601 262.9243 0014571 77.6131 282.6669 14.24258144256853

MET-2/17

1 18820U 88 5 A 91239.36290834 .00000206 00000-0 17433-3 0 5725
2 18820 82.5414 3.6807 0016276 175.3658 184.7664 13.84519123180536

MET-3/2

1 19336U 88 64 A 91232.75472621 .00000043 00000-0 99545-4 0 8126
2 19336 82.5421 333.5039 0016667 324.2128 35.7875 13.16929581147495

NOAA-11

1 19531U 88 89 A 91240.12005278 -.00000091 00000-0 -39338-4 0 5733
2 19531 99.0372 195.4543 0012908 129.2784 230.9051 14.12257898151177

MET-2/18

1 19851U 89 18 A 91235.97825254 .00000087 00000-0 72769-4 0 5246
2 19851 82.5194 243.5823 0012751 229.0759 130.9294 13.84162787125432

MET-3/3

1 20305U 89 86 A 91235.61787037 .00000043 00000-0 99999-4 0 4160
2 20305 82.5515 272.9883 0015704 336.4125 23.6275 13.15959994 87823

MET-2/19

1 20670U 90 57 A 91235.64937921 .00000211 00000-0 18060-3 0 2734
2 20670 82.5480 305.3512 0016397 148.9467 211.2667 13.84003306 58330

FY-1/2

1 20788U 90 81 A 91235.77295199 -.00000043 00000-0 -17048-4 0 2123
2 20788 98.9371 267.9393 0014348 353.5046 6.5917 14.01155201 49673

Pillar PCB nylon 18mm long x 4 mm dia hole \$ 0.10 ea.
 Clamps HILLS 1/4" Whit mast clamp with Vee block \$ 1.50 ea.
 Clamps HILLS 5/16" Whit mast clamp with Vee block \$ 1.00 ea.
 Insulator Plastic 25mm boom x 10mm element block VHF/1MF \$ 1.25 ea.
 Endcap Plastic for 10mm tubing elements \$ 0.10 ea.
 Solder 60/40 91.71mm (22 gauge) 250 gm roll \$ 5.50 ea.

FAX/SSTV MODEM

German designed modem for use with Commodore C64/128 computers. Software is supplied to enable both Screen or Printer output. All on board components are supplied including the C64 user port plug. Misc wire and box required to complete.

\$25.00 ea.

PACKET MODEM

Design by Norm VK5ZAH for use with Commodore C64/128 computers or IBM computers with BAYCOM kit below. Useable with both 300 baud (HF) or 1200 baud (VHF) Packet. Uses 7910 modem IC. Supplied with DIGICOMM V3.51 software, all on board components and C64 port plug. Misc wire, plugs and box required.

\$65.00 ea.

IBM INTERFACE

Short form kit with BAYCOM program, circuit and PCB to make a TTL to RS232 level converter for the above modem. Requires MAX232 IC and misc hardware to complete. Add an XT or AT computer and you are on Packet.

\$10.00 ea.

VK5 VHF PREAMP

Receiving inline preamp with RF relay switching. Kit is universal for 50-200 MHz. Approximate noise figure 1db. All on board components are provided, requires misc hardware, connectors and box to complete. Also available without relays for receive only applications.

\$30.00 ea.

VK5 5 AMP POWER SUPPLY (Short form)

Discrete circuit giving all components outside of 18V 5A transformer, Filter cap (see capacitors) and misc hardware/box to complete a 5 Amp power supply. Features over voltage/current protection. Sheet also available detailing 20 Amp version. (ASK)

\$20.00 ea.

UHF and ABOVE KITS

The following kits are available for the 70, 23, 13 cm bands. All modules are linear and can be used for all modes. Kits use a common 144-148 MHz IF. Transverters/transmit converters require 1-3 Watts of drive at 144 (eg FT290/IC202). All oscillators are stable Butler designs. Transverters/transmit converters use NO TIME design from NST May 1989. Various options of IF and UHF frequencies available (eg Linking frequencies) (ASK)

432 Mhz	Receive converter	2db NF	\$50.00 ea.
1296 Mhz	Receive Converter	2.5db NF	\$60.00 ea.
1690 Mhz	Receive Converter	3.5db NF	\$65.00 ea.
2304 Mhz	Receive Converter	3.5db NF	\$65.00 ea.
2400 Mhz	Receive Converter	3.5db NF	\$65.00 ea.

MISC ITEMS

Valves We have over 3000 receiving type valves of various \$1.00 ea.
 If you are looking for any types send in your list and Mark will have a look!

Pcb Offcuts mostly 125mm wide single and double \$ ASK
 sided. available on meeting nights only due to size.

Data Data Sheets are available for most components \$ 0.20 ea.
 Send 50¢ plus price each

Kit Instructions. Copies of instructions are avail \$ 2.00 ea.
 Price is refundable on kit purchase

Kit Instructions for Transverters \$ 4.00 ea.

pin outs Data sheet giving pin outs of current Transistors \$ 0.20 ea.
 All mail orders to:

EQUIPMENT SUPPLIES COMMITTEE

P.O. BOX 302,

MADDEN, S.A., 5070

CHEQUES TO "VIA S.A. DIVISION"

NO POSTAGE & HANDLING FEE REQUIRED FROM VISA MEMBERS IN S.A. & N.I.
 ALL OTHERS PLEASE INCLUDE \$5.00 PER ORDER AND YOUR AP ADDRESS LABEL.
 MIN MAIL ORDER \$10.00

PLEASE NOTE THAT AUSTRALIAN LAW RESTRICTS THE POSTAGE OF CASH.
 WHY NOT MAIL YOUR ORDER IN AND PICK UP AT THE NEXT VISA MEETING.

N.P. ORDERS AND AVAILABILITY ARE SUBJECT TO CHANGE WITHOUT NOTICE

DELIVERY, IF ALL COMPONENTS ARE IN STOCK ALLOW 7 WORKING DAYS. IF A FAIR \$ VALUE HAS TO BE BACK ORDERED THE ORDER WILL BE SENT AT THE END OF THE MONTH WITH BACK ORDERS NOTED. IF IMMEDIATE DELIVERY IS REQUIRED ON AVAILABLE ITEMS, PLEASE STATE WHEN ORDERING.

David WSKK Mailorder/Kits
 Mark VK5AVN Buyer

1268 Mhz Transmit Converter 1.5W out \$130.00 ea.
 1296 Mhz Transverter 1.5W out \$195.00 ea.
 2304 Mhz Transverter 0.5W out \$200.00 ea.
 23cm Linear Power Amp 0.2W/ 12W out \$110.00 ea.
 \$20.00 ea.

DF KIT

Fun design from VHF Communications, TRF design for 2M sniffer fox hunts. 85 db gain control, requires meter, box and sundry hardware to complete. HB9CV antenna details included.

DIODES

1N4148 Silicon G.P. equiv 1N914 \$ 0.05 ea.
 OA91 Germanium G.P. 1A \$ 0.20 ea.
 PG00G Silicon 400V 1A \$ 0.50 ea.
 1N4007 Silicon 1KV 1A \$ 0.12 ea.
 1N5404 Silicon 400V 3A \$ 0.25 ea.
 10 Amp Bridge rectifier \$ 2.00 ea.
 35 Amp Bridge rectifier \$ 4.00 ea.
 BZX79 Zener C5.1V,C10,C12,C15 400mW \$ 0.20 ea.
 BA481 Schottky 8V PIV \$ 0.50 ea.
 BA482 PIN switching \$ 1.00 ea.
 5082 2800 Schottky 70V PIV HP \$ 0.50 ea.
 MV109 Varicap 5 - 30 pf (28 - 3 V) \$ 0.15 ea.
 5mm Led Red diffused \$ 0.25 ea.
 3/5mm Led Yellow/Green diffused \$ 0.55 ea.
 Mounting kit for 5mm Leds \$ 0.05 ea.

GENERAL PURPOSE SEMICONDUCTORS

BD115 NPN 180V 150mA TO-39
 BC547, 548, 549, 558 NPN, PNP G.P. Silicon TO-92
 BC337, 327 NPN, PNP 45V 500mA TO-92
 BD139, 140 NPN, PNP 80V 1A TO-126
 TIP31, 32 NPN, PNP 80V 3A TO-220
 TIP31, 32 NPN, PNP 10A TO-220
 MJE3055, 2955 NPN, PNP TO-3
 NPN (mtg kit 0.15) 15A TO-39
 2N3055 NPN 30V 800mA (2N2222) TO-39
 2N2218 NPN RF replaces 2N918/3563 TO-92
 2N5770 JFET RF N-ch
 2N5485 JFET RF N-ch
 BF2458 JFET RF N-ch
 MPF102 JFET RF 60V
 BF X85 NPN (BFY50) 35V 1A FT=50 MHz TO-39
 BF X86 NPN (BFY50) 35V 1A FT=700MHz TO-39
 BF X89 NPN (BFY90) Wideband FT=1.2GHz TO-92

COAX FITTINGS

PL259 clamp nut style \$ 2.50 ea.
 PL259 screw in type, no reducer \$ 2.30 ea.
 PL259 screw in type \$ 3.00 ea.
 PL259 for above plug RG58 or RG59 specify X \$ 0.50 ea.
 S0239 single hole \$ 1.60 ea.
 S0239 4 hole flange \$ 2.00 ea.
 S0238 female x female \$ 3.00 ea.
 PL259 male x female 90deg. \$ 4.90 ea.
 PL259 x BNC female \$ 4.50 ea.
 S0239 x BNC male \$ 5.00 ea.
 BNC x RG58 \$ 2.50 ea.
 BNC x RG58 single hole \$ 2.00 ea.
 N x RG58 Crimp style (Ask Mark to crimp it!) \$ 2.50 ea.
 N x RG8 \$ 7.50 ea.
 N 4 hole flange \$ 6.20 ea.

ANTENNAE

1/4 wave 2 Metre Stainless steel \$ 5.50 ea.
 1/4 wave 70 cm Stainless steel \$ 3.50 ea.
 Base VHF 5/16" X 26 TPI thread \$ 3.00 ea.
 Base UHF 5/16" X 26 TPI thread \$ 5.50 ea.
 Mount Gutter grip for VHF or UHF base, specify \$ TBA

DRY CELL BATTERIES

Duracell Alkaline, all useby dated 1994
 AA Twin pack \$ 1.80 pk C Twin pack \$ 2.50 pk
 AA Four pack \$ 3.40 pk D Twin pack \$ 2.80 pk
 AAA Twin pack \$ 2.00 pk 9V Single \$ 2.70 pk

HARDWARE

Switch PCB mount mom action 5mm sq keyboard type X \$ 0.05 ea.
 Switch Rotary 12 pos, 1 pole Oak type X \$ 1.00 ea.
 Switch Rocker DPDT two types 240V 5A X \$ 0.20 ea.
 Switch Toggle SPDT spun alum handle X \$ 0.20 ea.
 Switch Toggle DPDT spun alum handle X \$ 0.25 ea.
 Switch Spring loaded speaker type 2 on panel X \$ 0.40 ea.
 Terminals Spring loaded type 9, 26, 43 way X \$ 0.20 ea.
 Connector Edge type 9, 26, 43 way X \$ 0.20 ea.
 Standoff Ceramic 14mm OD tube X 50mm long, 10mm ID X \$ 0.15 ea.
 Sockets 8 PIN IC Low profile \$ 0.25 ea.
 Sockets 14,16 PIN IC Low profile \$ 0.40 ea.
 Sockets 24 PIN IC Low profile \$ 0.50 ea.
 Sockets 40 PIN IC Low profile \$ 1.00 ea.
 Plug/Sock Computer DR25 plug or socket X \$ 0.25 ea.
 Cover Computer for DB25 plug or socket inline X \$ 0.80 ea.
 Plug/Sock Car Aerial type plug or socket inline X \$ 1.00 ea.
 Suppress Capacitor Automotive suppressor \$ 1.25 ea.
 Fusehold Panel mount Fuse holder 3AG \$ 1.40 ea.
 Post Binding post for Banana, Red or Green \$ 1.40 ea.

Rigid coils for VHF

TOKO molded coil series

Type	Form	Dimensions (mm)	Tuning Method	Range MHz MHz MHz 1 10 100	L Range	Qu (typ.)	Tap & Sec. coil
S18					0.03μH ~ 0.4μH	100~200 at 58MHz 160~220 at 100MHz	Pri; 1 tap; Sec.; None
MC115					0.03μH ~ 0.20μH	50~160 at 58MHz 110~180 at 100MHz	No tap & no Sec.
MC116					0.03μH ~ 0.48μH	50~140 at 58MHz 110~140 at 100MHz	No tap & no Sec.
MC108					0.03μH ~ 0.17μH	130 ~ 190 at 100MHz	Single Winding only; no tap
MC111					0.03μH ~ 0.50μH	50~140 at 58MHz 110~140 at 100MHz	Single Winding, 2 taps possible; Sec. Available

A full range of the S18 series coils is held in stock, and these are listed below. Of the other types, sample and small quantities are available from stock in styles, MC115, MC116 and MC111. An additional publication, entitled 'Molded coils for VHF' is available at 15p, and lists all standard types of these and others, together with full electrical and mechanical detail. Trimmers for the hexagonal ferrite cores, and slot types are available in molded nylon from stock.

Core Material	Ordering Code No.	Colour Code	Centre Frequency MHz	Tuning Range Capacitor pF	L (Ref) uH	Qu. Min.	Turns	TOKO PART NUMBER
ALUMINIUM	301AN-0100	White	100	85 (3%)	0.03	100	1½	M-20160
	-0200	Red	100	51 (3%)	0.05	100	2½	M-20002
	-0300	Orange	100	32.7 (3%)	0.066	85	3¼	M-20003
	-0400	Yellow	100	31 (3%)	0.082	75	4½	M-20005
	-0500	Green	100	25 (3%)	0.098	95	5½	M-20158
	-0600	Blue	100	21 (1.5%)	0.12	90	6½	M-20004
	-0700	Violet	100	17.8 (1.5%)	0.141	90	7½	M-20007
	-0800	White	100	15 (1.5%)	0.168	90	8½	M-20156
FERRITE 30-60 MHz	301KN-0100	White	44	210 (6%)	0.06	120	1½	M-20162
	-0200	Red	54	107 (6%)	0.08	68	2½	M-20161
	-0300	Orange	58	60 (6%)	0.12	150	3½	M-25025
	-0400	Yellow	75	27.7 (3%)	0.16	100	4½	M-20066
	-0500	Green	65	27 (3%)	0.27	100	5½	M-20067
	-0600	Blue	58	26 (1.5%)	0.27	100	6½	M-20068
	-0700	Violet	58	21.8 (3%)	0.34	180	7½	M-20159
	-0800	White	58	19 (1.5%)	0.40	65	8½	M-20157

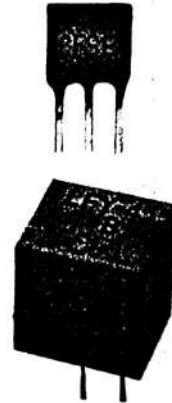
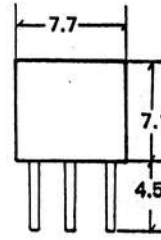
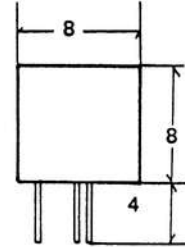
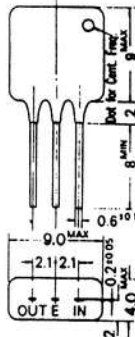
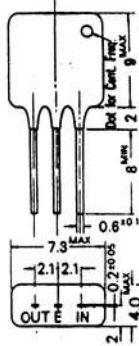
The ceramic filters described here are designed for use in conjunction with one or more L/C tuned circuits at the preceding stage(s). Ceramic filters offer both high selectivity, combined with no adjustment requirements, and low cost. To obtain the best results, always terminate the filters as shown in the specification tables. Too high a termination resistance will result in narrowing, and peaking of the filter, and vice-versa. Please note the now obsolete SFG10.7 is replaced by two cascaded CFSE/SFE type filters for FM applications.

CFSE

CFS
10.7MHz

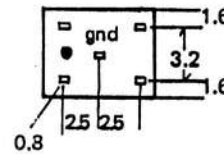
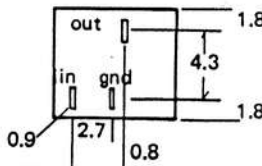
LFY

SFD



- A-10.70MHz ± 30kHz
- B-10.67MHz ± 30kHz blue
- C-10.73MHz ± 30kHz orange
- D-10.64MHz ± 30kHz black
- E-10.76MHz ± 30kHz white

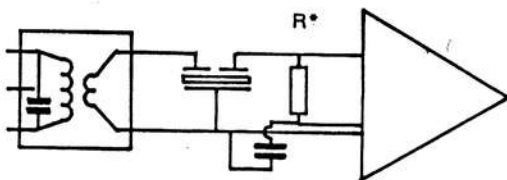
- A-10.70MHz ± 35kHz
- B-10.67MHz ± 35kHz blue
- C-10.73MHz ± 35kHz orange
- D-10.64MHz ± 35kHz black
- E-10.76MHz ± 35kHz white



Specifications

Type	Centre frequency	Response	Loss	Input/output impedance	Spurious responses
CFSE / SFE107	see chart	-3dB: 280±50kHz -20dB: <600kHz	<6dB	330 ohms	>30dB [7-50MHz]
CFS107	see chart	-3dB: 300±50kHz -20dB: <650kHz	<6dB	330 ohms	>30dB [7-50MHz]
SFE6.0	6.0MHz ± 70kHz	-3dB: >150kHz	<8dB	470 ohms	>25dB [5-8MHz]
LFY455B	455±1 kHz	-6dB: >6kHz -40dB: <9kHz	<6dB	2K ohms	
LFY455D	455±1.5kHz	-6dB: >12kHz -40dB: <25kHz	<6dB	2K ohms	
SFD455B	455±2kHz	-3dB: 4.5±1kHz	<9dB	3K ohms	
SFD470B	470±2kHz	-26dB: <10kHz			
SFD460B	460±2kHz	-20dB: <+10kHz			

Applications



The CFSE filter is especially characterized for group delay consistent with good stereo reception. The CFS is more suitable in mono and 'roofing' applications.

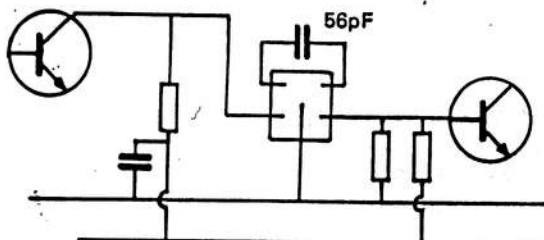
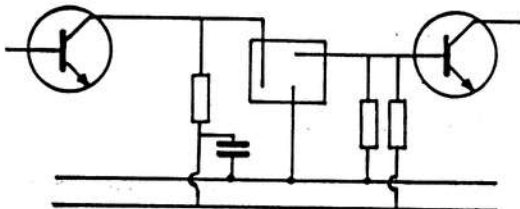
The CFS/SFE series

When used in FM/TV applications, always remember that the ceramic filter is quite transparent to local oscillator signals, at about 100MHz. For this reason, it is essential that one or more tuned circuits be used to prevent LO leakage from affecting the operation of the IF stages following the filters. Most IC amplifiers have an input loading stage resistor (R*), and this should not necessarily be the value shown in the above table for the filter concerned, but it should take into account the input impedance of the IC itself. The uA753, for example, already uses a correctly terminated 330 ohm input, and requires no R.

The LFY

This recent development combines the highest density selectivity yet achieved. The input/output impedance is easily matched in semiconductor applications - but remember that some LC selectivity will also be required to tailor skirt responses.

Specially adapted types are available in quantity, for OEMs requiring variations of bandwidth, centre frequency etc.



The SFD is a long established ceramic block filter for AM IFs. A 56pF external capacitor is required for neutralization, and coupling the two internal ceramic resonators.

Remember that simply adding stage after stage of selectivity, will not necessarily result in the desired bandpass response, due to the variations in centre frequency, accentuation of passband ripples, and general shrinkage effects. It is generally better to employ a single high selectivity filter block, such as the MFL, MFH etc.

WA VHF GROUP
Materials Listing

Partnumber	Description	Qty	Price \$
1" VIDICON	VIDICON	12	15.00
1.8-22PF	TRIM CAP(SMALL GRN)	73	0.45
100N	DISC CERAMIC	241	0.10
100N	GREENCAP	100	0.06
10N	DISC CERAMIC 63V	23	0.03
10N	DISC CERAMIC 100V	393	0.15
10N	MIN. PLATE CERAMIC	848	0.10
1N5344	8V2 5W ZENER	17	0.30
1N5370	56V 5W ZENER	24	0.30
1N914	SWITCHING DIODE	40	0.03
1N917B	27V 0.4W ZENER	81	0.10
2N2906	PNP AUDIO GEN PURP	7	0.05
2N4091	NJD FET RF SWITCH	5	0.10
2N5770	NPN UHF SWITCH	266	0.15
BC548	NPN GENERAL PURP.	611	0.15
BFY90	NPN 1GHZ AMP	51	2.00
BK 5-65PF	TRIM CAP (LARGE YELL)	29	0.45
BNC	PLUG	40	3.00
F28	NEOSID SLUG	446	0.08
F29	NEOSID SLUG	127	0.08
FT 2-10PF	TRIM CAP (SMALL YELL)	71	0.45
LED	5MM GREEN	52	0.20
MFE131	NMD MOSFET VHF	18	2.20
MID 1.4-8.5PF	TRIMCAP (SMALL WHITE)	108	0.45
MRF901	NPN 1GHz 2.5db NOISE	22	3.00
MV2209	33PF VARICAP DIODE	34	0.45
OC960		89	0.05
OC971		104	0.05
PCB LAYOUT TAPE	VARIOUS SIZES	10	4.00
QQE03/20	UHF VALVE 20W	2	5.00
TO3	HEATSINK	13	1.00
TO66	HEATSINK	35	1.00
XTAL OVEN	HOLDS 2,3 OR 4 ? HC33	5	1.00

Specials:

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