

# Laceys.tv

*QUALITY ELECTRONICS FOR THE RECEPTION OF TELEVISION*

## CATALOGUE 108

- ANTENNAS & MOUNTING HARDWARE
- AMPLIFIERS & MODULATORS
- A/V LEADS, CABLE, CONNECTORS, HAND TOOLS & OUTLET PLATES
- DATA PRODUCTS
- DIPLEXERS, FILTERS & PASSIVES
- INSTRUMENTS
- MOUNTING BRACKETS & CABINETS
- COMMERCIAL MATV, SMATV & CATV
- CCTV
- SATELLITE EQUIPMENT
- RECEIVERS

# 32 YEARS OF EXPERTISE & LEADING BRANDS

Australian owned and operating for more than 32 years, Lacey's.tv continues its dedication to sourcing technologically advanced products and is the sole importer of some of the world's most important and recognised television reception brands.



**FRACARRO**

- Television Antennas
- Antenna Mast Amplifiers
- Splitters / Taps / Couplers
- Digital TV Modulators

**FRACARRO** is the market leader in designing and producing products for excellence in TV Reception.

Italian design, engineering and manufacturing, Fracarro have the experience and technological expertise in manufacturing acquired over 77 years in business.

Fracarro is Europe's largest Antenna manufacturer with a significant share of the Australian TV Antenna market, long the choice of installers working in the most difficult reception areas.

Fracarro also manufacture a broad range of quality MATV products and these have been employed successfully in headends across Australia for almost 20 years.



- Security Cameras
- Network Video Recorders
- Digital & Analogue HD Video Recorders
- Cabling
- Mobile application & support

**SECURITY INDUSTRIES** represents a wide range of CCTV products including the latest IP and security cameras, network and digital video recorders.

**LABGEAR**

- TV Signal Meters
- Taps

**LABGEAR** brand is synonymous with quality terrestrial TV and satellite TV signal meters for domestic and commercial MATV applications.



- TV Mounting Hardware
- TV Flyleads
- TV Coaxial Cable
- Splitters for TV & Satellite
- Connectors & Adaptors
- HDMI Leads & Accessories

**AERIAL INDUSTRIES** brand represents a diverse range of products covering TV reception accessories, cabling and AV accessories.

**OGG LABS**

- Digital TV Modulators

**OGG LABS** brand was founded with a vision to achieve technologically advanced product solutions for common problems associated with television reception.

OGG LABS is committed to delivering solutions for digital content, specialising in DVB-T and HDMI products for TV.



- Digital TV Modulators
- TV Brackets
- HD Television Set Top Boxes
- Audio Video Senders

**healing** is one of Australia's original and iconic consumer electronic products brands. Extensive testing and development work invested in healing products performed at our engineering division has assured an outcome of outstanding performance and high reliability.

# Diplexers, Filters & Passives

## Splitters

Terrestrial 1GHz.....	82–83
Satellite 2.4GHz.....	83–84
Plug In PAL Type Splitters.....	84

## Taps & Couplers

1GHz Terrestrial Directional Couplers.....	84–85
Antenna Stacking Couplers.....	85
Satellite Directional Couplers.....	86
Multitaps.....	86

## Diplexers & Multiplexers

Band Mixers / Separators.....	87
Satellite I.F. / Terrestrial Diplexers.....	88

## Attenuators

Variable Attenuators.....	88
Fixed Attenuators.....	88

## Filters & Isolators

Low Pass Filters, Band Pass Filters.....	89
FM Rejection Filters.....	90
Isolator.....	90
Antenna Switch.....	90
UHF Notch Filters.....	90
DC Blocks.....	90
Multi Band Pass Filter Combiner.....	90

# Duplexers, Filters & Passives

## SPLITTERS

### TERRESTRIAL 1GHz

**Aerial Industries AI**



**SOLDERED BACK >120dB**

**SP2T1P** 2 way F type, power pass one port, 5–1000MHz. Insertion loss -3dB @ 500MHz. Gold plated 4 sided centre wire clasps.

**Aerial Industries AI**



**SOLDERED BACK >120dB**

**SP3T1P** 3 way F type, power pass one port, 5–1000MHz. Insertion loss -5dB @ 500MHz. Gold plated 4 sided centre wire clasps.

**Aerial Industries AI**



**SOLDERED BACK >120dB**

**SP4T1P** 4 way F type, power pass one port, 5–1000MHz. Insertion loss -7dB @ 500MHz. Gold plated 4 sided centre wire clasps.

**Aerial Industries AI**



**SOLDERED BACK >120dB**

**SP5T1P** 5 way F type, power pass one port, 5–1000MHz. Insertion loss -8dB @ 500MHz. Gold plated 4 sided centre wire clasps.

**Aerial Industries AI**



**SOLDERED BACK >120dB**

**SP6T1P** 6 way F type, power pass one port, 5–1000MHz. Insertion loss -9dB @ 500MHz. Gold plated 4 sided centre wire clasps.

**Aerial Industries AI**



**SOLDERED BACK >120dB**

**SP8T1P** 8 way F type, power pass one port, 5–1000MHz. Insertion loss -10dB @ 500MHz. Gold plated 4 sided centre wire clasps.

**LABGEAR**



**SOLDERED BACK >120dB**

**SP1275FP** 12 way F type, Power pass one port 5–900MHz. Insertion loss -11dB @ 500MHz. Glass fibre PCB construction with equalisation.

**LABGEAR**



**SOLDERED BACK >120dB**

**SP1675FP** 16 way F type, Power pass one port. Insertion loss -12dB @ 500MHz. Glass fibre PCB construction with equalisation.

**LABGEAR**

**AIR SUSPENDED CONSTRUCTION**

**SP275F**



**SP475FG**



**SP275F** 2 way F type splitter, power pass one port.

**SP275FG** 2 way small F type splitter, power pass one port.

**SP475FG** 4 way F type splitter, power pass all ports.

**LABGEAR**



**SP275FPV**

2 way F type, power pass one port. Insertion loss -3.5dB @ 500MHz. Higher isolation and return loss 900MHz. Shielding  $\geq$ 120dB. All ports face down.

# Diplexers, Filters & Passives

**LABGEAR**



**SP375FPV**

3 way F type, power pass one port. Insertion loss -3.5, -3.5, -7dB @ 500MHz. Unbalanced. Higher isolation and return loss 900MHz. Shielding  $\geq 120$ dB. All ports face down.

**LABGEAR**



**SP475FPV**

4 way F type, power pass one port. Insertion loss -7dB @ 500MHz. Higher isolation and return loss 900MHz. Shielding  $\geq 120$ dB. All ports face down.

## SATELLITE 2.4GHZ

**Aerial Industries AI**



**SP2SDP**

2 way F type, All Port DC pass via diode control. Insertion loss -3dB. 5-2400MHz. Gold plated 4 sided centre wire clasps.

**SOLDERED BACK >120dB**

**Aerial Industries AI**



**SP3SDP**

3 way F type, All Port DC pass via diode control. Insertion loss -5dB. 5-2400MHz. Gold plated 4 sided centre wire clasps.

**SOLDERED BACK >120dB**

**Aerial Industries AI**



**SP4SDP**

4 way F type, All Port DC pass via diode control. Insertion loss -7dB. 5-2400MHz. Gold plated 4 sided centre wire clasps.

**SOLDERED BACK >120dB**

**Aerial Industries AI**



**SP6SDP**

6 way F type, All Port DC pass via diode control. Insertion loss -9dB. 5-2400MHz. Gold plated 4 sided centre wire clasps.

**SOLDERED BACK >120dB**

**Aerial Industries AI**



**SP8SDP**

8 way F type, All Port DC pass via diode control. Insertion loss -10dB. 5-2400MHz. Gold plated 4 sided centre wire clasps.

**SOLDERED BACK >120dB**

**LABGEAR**

**SP42GDV**



**SP22GDV**

2 way, Split Loss  $\leq 5.5$ dB, Isol.  $\geq 20$ dB. PayTV approved.

**SP32GDV**

3 way, Split Loss  $\leq 10$ dB, Isol.  $\geq 22$ dB.

**SP42GDV**

4 way, Split Loss  $\leq 10$ dB, Isol.  $\geq 22$ dB.

5-2,050MHz inductive splitters with all input and output ports on one side. All port Power pass with Diode Control. High Return Loss. Loss and Outlet to Outlet isolation shown at 1,750MHz.

**Aerial Industries AI**



**AISP2**

2 way, Split Loss  $\leq 5.5$ dB, Isol.  $\geq 20$ dB. 5-2400MHz.

**AISP4**

4 way, Split Loss  $\leq 11$ dB, Isol.  $\geq 26$ dB. 5-2400MHz.

All Port DC pass via diode control. High quality PCB construction with high isolation and return loss. Port positions result in easier installation in smaller spaces. Shielding  $\geq 120$ dB.

# Duplexers, Filters & Passives



- SP6125** 2 way Satellite Splitter, Power pass All Ports, Diode Control.
- SP6126** 2 way Satellite Splitter, Power pass 1 Port.
- SP6127** 4 way Satellite Splitter, Stripline technology, Power pass All Ports.

Low loss 900–2,050MHz Strip Line splitters with slightly higher attenuation over 40–860MHz.

## FRACARRO



- PA2** 2 way, Split Loss  $\leq 5.5$ dB, Isol.  $\geq 20$ dB. 5–2400MHz.
- PA3** 3 way, Split Loss  $\leq 10$ dB, Isol.  $\geq 22$ dB. 5–2400MHz.
- PA4** 4 way, Split Loss  $\leq 11$ dB, Isol.  $\geq 26$ dB. 5–2400MHz.
- PA6** 6 way, Split Loss  $\leq 13.5$ dB, Isol.  $\geq 22$ dB. 5–2400MHz.
- PA8** 8 way, Split Loss  $\leq 15.5$ dB, Isol.  $\geq 20$ dB. 5–2400MHz.

All Port Power pass splitters. Quality construction. Higher isolation and return loss. Port positions permit neater results and better weather protection. Shielding  $\geq 120$ dB.

## PLUG IN PAL TYPE SPLITTERS 1GHz

### LABGEAR



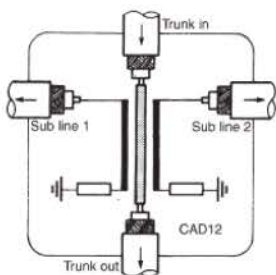
- SUVTM** 2 way splitter PAL type connectors, Metal. Male input to 2 x Female outputs. Power pass all ports.
- SUVTP** 2 way splitter PAL type connectors, Plastic. Male input to 2 x Female outputs. Power pass all ports.

## TAPS / COUPLERS

### 1GHz TERRESTRIAL DIRECTIONAL COUPLERS

Quality 5–1,000MHz saddle and screw taps or couplers. High isolation, Return Loss  $\geq 18$ dB @ 500MHz.

### FRACARRO



CD264/CAD14 etc. in optional CN9 housing

Provide the convenience of saddle and screw thanks to precision design and unique shielded terminals. CD models use ferrite whilst CAD models use stripline technology to provide higher loss at lower frequencies.

	Taps	Tap Value	In-out loss @ MHz
<b>CAD11</b>	1 tap	-27/12dB	-0.1 – 0.7dB
<b>CAD12</b>	2 taps	-27/13dB	-0.1 – 0.8dB
<b>CAD13</b>	3 taps	-27/15dB	-0.2 – 2.0dB
<b>CAD14</b>	4 taps	-27/15dB	-0.1 – 1.9dB
<b>CN9</b>	Optional housing for Fracarro couplers.		
<b>CD201</b>	1 tap	-20dB	-0.2 – 0.6dB
<b>CD12</b>	2 taps	-10dB	-1.3 – 1.8dB
<b>CD142</b>	2 taps	-14dB	-0.6 – 1.1dB
<b>CD202</b>	2 taps	-20dB	-0.6 – 1.1dB
<b>CD262</b>	2 taps	-26dB	-0.7 – 1.2dB
<b>CD144</b>	4 taps	-14dB	-0.8 – 2.8dB
<b>CD204</b>	4 taps	-20dB	-0.3 – 1.2dB
<b>CD264</b>	4 taps	-26dB	-0.3 – 1.2dB

*"I thought Taps were better than Splitters?"*

Taps give greater control over signal levels and higher isolation, depending on where what values are fitted. Quality Splitters can be used to create effective and simple TV signal distribution networks. Combining Taps with Splitters in your networks can achieve even greater isolation and better signal level balance.

# Diplexers, Filters & Passives

**LABGEAR**



FA1-8

	Taps	Tap Value	In-out loss @500MHz
FA1-6	1 tap	-6.5dB	-2.0dB
FA1-8	1 tap	-8.5dB	-2.0dB
FA1-10	1 tap	-10dB	-1.3dB
FA1-12	1 tap	-12.5dB	-0.8dB
FA1-16	1 tap	-16dB	-0.8dB
FA1-20	1 tap	-20dB	-0.6dB
FA1-24	1 tap	-24dB	-0.6dB
FA1-30	1 tap	-30dB	-0.6dB

**LABGEAR**



FA2-8

	Taps	Tap Value	In-out loss @500MHz
FA2-8	2 taps	-8.5dB	-4.0dB
FA2-10	2 taps	-10dB	-3.0dB
FA2-12	2 taps	-12.5dB	-1.8dB
FA2-16	2 taps	-16dB	-1.0dB
FA2-20	2 taps	-20dB	-1.0dB
FA2-24	2 taps	-24dB	-0.6dB
FA2-30	2 taps	-30dB	-0.6dB

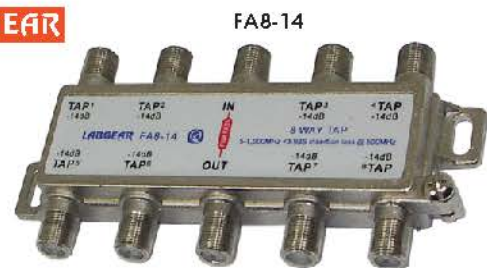
**LABGEAR**



FA4-12

	Taps	Tap Value	In-out loss @500MHz
FA4-10	4 taps	-10dB	-6.0dB
FA4-12	4 taps	-12dB	-4.0dB
FA4-14	4 taps	-14dB	-2.5dB
FA4-16	4 taps	-16dB	-1.7dB
FA4-18	4 taps	-18dB	-1.5dB
FA4-20	4 taps	-20dB	-1.3dB
FA4-24	4 taps	-24dB	-0.6dB
FA4-27	4 taps	-27dB	-0.6dB
FA4-30	4 taps	-30dB	-0.6dB

**LABGEAR**



FA8-14

	Taps	Tap Value	In-out loss @500MHz
FA8-14	8 taps	-14dB	-3.9dB
FA8-16	8 taps	-16dB	-2.4dB
FA8-18	8 taps	-18dB	-2.0dB
FA8-20	8 taps	-20dB	-1.4dB
FA8-24	8 taps	-24dB	-1.2dB
FA8-27	8 taps	-27dB	-1.0dB
FA8-30	8 taps	-30dB	-0.6dB



FDC12B

FDC12B	1 out-12dB, insertion loss 1dB.
FDC17B	1 out-17dB, insertion loss 1dB.
FDC23B	1 out-23dB, insertion loss 1dB.

Low cost directional couplers, Air Suspended construction.

## ANTENNA STACKING COUPLERS

**FRACARRO**



TMU/4

TMU/2	UHF Band 4 and 5, 2 way stacking coupler +3dB, outdoor design, cover excluded.
TMU/4	UHF Band 4 and 5, 4 way stacking couplers +6dB, outdoor design, cover excluded.

Extra signal and narrower beamwidth are achieved by stacking antennas with practically nil insertion loss. Reduce multipath and sidelobes whilst optimising front to back ratio. Equal lengths of antenna coax required when stacking antennas.

# Duplexers, Filters & Passives

## SATELLITE DIRECTIONAL COUPLERS



5–2,500MHz. High isolation, power pass In to Out.

	Taps	Tap Value	In-out loss @1750MHz
AITP10	1 tap	-10dB	-1.6dB
AITP16	1 tap	-16dB	-1.2dB
AITP22	1 tap	-22dB	-0.8dB



DE1-10

	Taps	Tap Value	In-out loss @1750MHz
DE1-10	1 tap	-10dB	-1.6dB
DE1-14	1 tap	-14dB	-1.2dB
DE1-18	1 tap	-18dB	-0.9dB
DE1-22	1 tap	-22dB	-0.8dB
DE2-10	2 taps	-10dB	-2.5dB
DE2-14	2 taps	-14dB	-1.8dB
DE2-18	2 taps	-18dB	-1.5dB
DE2-22	2 taps	-22dB	-1.5dB
DE4-12	4 taps	-12dB	-5.1dB
DE4-14	4 taps	-14dB	-3.0dB
DE4-18	4 taps	-18dB	-1.5dB
DE4-22	4 taps	-22dB	-1.2dB
DE6-16	6 taps	-16dB	-5.5dB
DE6-20	6 taps	-20dB	-4.0dB
DE6-25	6 taps	-25dB	-2.0dB
DE8-16	8 taps	-16dB	-5.5dB
DE8-20	8 taps	-20dB	-4.5dB
DE8-25	8 taps	-25dB	-2.0dB

5–2,500MHz F connector Sat and Terrestrial taps. High Tap Isolation and Return Loss. Power pass in to out.



FAS4-15



FAS2-12

	Taps	Tap Value	In-out loss @950MHz
FAS1-12	1 tap	-12dB	-3.5dB
FAS1-15	1 tap	-15dB	-3.5dB
FAS2-12	2 taps	-12dB	-3.5dB
FAS2-15	2 taps	-15dB	-3.0dB
FAS4-15	4 taps	-15dB	-4.5dB
FAS4-25	4 taps	-25dB	-4.0dB

5–2,500MHz F connector taps. @ 1,750MHz outlet isolation  $\geq 18$ dB, Return Loss  $\geq 14$ dB. Power pass in to out.

## MULTITAPS



1GHZ

FA4-MT -13dB/-14dB/-15dB/-16dB.  
In to out insertion loss -4dB.

This 1GHz Multiple tap values in one device help equalise signal levels in star wired 5–860MHz MATV systems. Power pass from in to out. Specifications at 500MHz. Return Loss  $\geq 20$ dB.



2GHZ

DM36/10

DM36/10	4 tap: -11dB/-12dB/-13dB/-14dB. In to out insertion loss -5dB.
DM36/13	4 tap: -13dB/-14dB/-15dB/-16dB. In to out insertion loss -4dB.
DM36/16	4 tap: -16.5dB/-17dB/-17.5dB/-18.5dB. In to out insertion loss -3dB.
DM36/19	4 tap: -18.5dB/-19dB/-19.5dB/-20.5dB. In to out insertion loss -2dB.
DM37	6 tap -12.5dB/-13.5dB/-14dB/-14.5dB/-15.5dB/-16.5dB. In to out insertion loss -5dB.

4–2,300MHz Multitaps. Distribute Satellite 1st IF. In to out loss quoted @ 1,750MHz.



## DIPLEXERS & MULTIPLEXERS

### BAND MIXERS OR SEPARATORS

#### FRACARRO



**MX201**

Fracarro VHF / UHF Diplexer, F type with power pass on VHF port. Insertion loss. VHF:  $\leq 0.2$  dB, UHF:  $\leq 0.2$  dB.

**MX206**

Fracarro B1+FM / B3 / UHF Triplexer, F type with power pass on UHF port. Insertion loss. B1+FM:  $\leq 0.5$  dB, B3:  $\leq 0.5$  dB, UHF:  $\leq 1$  dB.

**MX208**

Fracarro VHF / UHF Diplexer, F type. With optional Power pass on either input. VHF:  $\leq 0.5$  dB, UHF:  $\leq 1$  dB.

#### VHF / UHF DIPLEXER



**MM307**

F Type connector, fully shielded metal weatherproof housing. VHF:  $\leq -0.5$  dB, UHF  $\leq -4.5$  dB.

Fully shielded metal housing. Plastic cover for weather proofing.

#### FRACARRO



**ESVU**

VHF / UHF diplexer, power pass on UHF input.

**ES345/32**

Au Ch.20-28 UHF Low, Au Ch.33-75 UHF High and B3, 3 input mixer, power pass UHF High, Trap B1 & 2.

**ES345/39**

Au Ch.20-35 UHF Low, Au Ch.41-75 UHF High and B3, 3 input mixer, power pass both UHF, Trap B1 & 2.

**ESV45**

Au Ch.20-36 UHF Low, Au Ch.40-75 UHF High and VHF, 3 input mixer. Power pass UHF High.

**ESV45S**

Au Ch.20-32 UHF Low, Au Ch.38-75 UHF High and VHF, 3 input mixer. Power pass UHF High.

**ESVUU**

UHF, UHF and VHF, 3 input mixer. Power pass 1 UHF port. ( $-4$  dB UHF as UU mix is wide band).

#### F TYPE DIPLEXERS

#### LABGEAR



**M1-4/5FV**

Mix bands 1 to 4 with band 5. Insertion loss  $\leq 1$  dB. Power pass on both inputs. Useful in capital cities to mix local signals from modulators etc with off air signals.

**MVUFV**

VHF: 5-230MHz, insertion loss 0.5dB. UHF: 470MHz-1000MHz, insertion loss 0.5dB. Power pass to VHF port.

Diecast zamac housing.

#### VHF / UHF DIPLEXER

#### Kingray



**DPOUVFSDP**

Fully shielded F Type connections. Optional power pass on either input. Comes in a display pack.

Power Pass  
LO to LINE



Power  
Pass

**MX51HLF**

VHF High / Low F Type diplexer, handy for mixing FM Antenna with B3+ Antennas. Cross over frequencies 120MHz.

**MX61UVF**

VHF / UHF F Type diplexer, for combining separate VHF with UHF Antennas.



**MXA0F**

Ch.0 / 2-69 F Type diplexer. Improved filter design and F connectors in full shielded case.

# Diplexers, Filters & Passives

## SATELLITE IF/TERRESTRIAL DIPLEXERS

**LABGEAR**

Pay TV  
Approved



BS20

**transmedia**

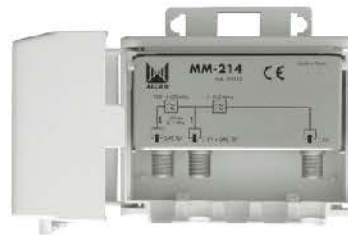
Pay TV  
Approved



BS30

**BS20** Mix or separate 950–2050MHz 1st I.F. and 40–860MHz. Power pass to SAT port. Low cost high spec.

**BS30** Mix or separate 1st I.F. and 40–860MHz. Use a pair to mix and then separate. Traditional high spec.



**MM214** Mix or separate 950–2400MHz 1st I.F. and 5–862MHz.  $\leq -1$ dB TV,  $\leq -3$ dB SAT.

## ATTENUATORS

### VARIABLE ATTENUATORS

FULLY  
SHIELDED  
ZAMAC  
CASE



AT7520F

FULLY  
SHIELDED  
CASE



AT7520M

	AT7520F	AT7520M
Range:	0 to -20dB in 4 turns	
Insertion loss:	<0.5dB	
5–300MHz:	<0.15dB	
300MHz–1 GHz:	<0.45dB	
Connector Type:	F	PAL M to F

20dB variable attenuator. Impedance at a constant 75 $\Omega$ . Frequency range 0–1,000MHz, Return loss  $\leq 16$ dB.



AT75-20

Flat frequency response past 860MHz. Solder inside FH-1, behind outlet plates, etc. Don't risk the mismatch potentiometers cause when used as variable attenuators.

### FILTER HOUSING



FH1

Empty case with PAL Male and Female connectors, 7mm $\varnothing$  trimmer hole.

### FIXED ATTENUATORS



- FATT3** 3dB fixed F type M to F 75 $\Omega$  attenuator.
- FATT6** 6dB fixed F type M to F 75 $\Omega$  attenuator.
- FATT12** 12dB fixed F type M to F 75 $\Omega$  attenuator.
- FATT24** 24dB fixed F type M to F 75 $\Omega$  attenuator.



- PATT3** 3dB fixed PAL type M to F 75 $\Omega$  attenuator.
- PATT6** 6dB fixed PAL type M to F 75 $\Omega$  attenuator.
- PATT12** 12dB fixed PAL type M to F 75 $\Omega$  attenuator.
- PATT24** 24dB fixed PAL type M to F 75 $\Omega$  attenuator.



- FATT6PP** 6dB fixed F type M to F 75 $\Omega$  attenuator. Power pass.
- FATT12PP** 12dB fixed F type M to F 75 $\Omega$  attenuator. Power pass.
- FATT24PP** 24dB fixed F type M to F 75 $\Omega$  attenuator. Power pass.

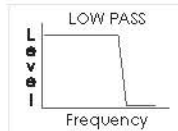
# Diplexers, Filters & Passives

## FILTERS & ISOLATORS

### LOW PASS AND BAND PASS FILTERS

New Band Pass and Low Pass filter series that provide tight clean ways to eliminate television interference including Lte. Insertion Loss <2dB, Return Loss 20dB typical. Miniature nickel plated brass cases, complete with O ring weather seals. Weatherproof to IP44, "water splashed from any direction has no harmful effect" when used with FC7013C. Actual freq. reponse traces at <https://online.laceys.tv/collections/filters>.

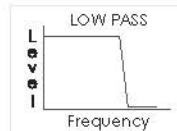
#### 694MHZ LOW PASS FILTER



**FAE60**

Passes FM and TV to channel 51. High Lte rejection up to 60dB. F type Male to Female. Return Loss 20dB typical. 21 x 47mm (57mm incl F connector).

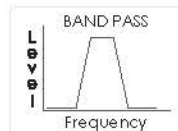
#### 694MHZ LOW PASS FILTER



**FAE50**

Passes FM and TV to channel 51, with Lte rejection up to 50dB. F type Male to Female. Return Loss 20dB typical. 13 x 36mm (46mm incl F connector).

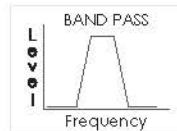
#### 174-230MHZ BAND PASS FILTER



**FBPA50**

Passes channels 6 to 12 (ch block A, red, primary Capital City TV services) with up to 50dB rejection of all other communications. Return Loss >20dB typical. Dimensions 13 x 48mm (58mm incl F connector).

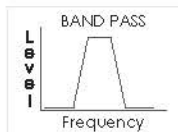
#### 526-568MHZ BAND PASS FILTER



**FBPB50**

Passes channels 28 to 33 (ch block B, yellow) with up to 50dB rejection of all other communications. Return Loss >20dB typical. 13 x 48mm (58mm incl F connector).

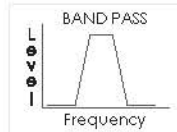
#### 568-610MHZ BAND PASS FILTER



**FBPC50**

Passes channels 34 to 39 (ch block C, green) with up to 50dB rejection of all other communications. Return Loss >20dB typical. 13 x 48mm (58mm incl F connector).

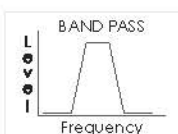
#### 610-652MHZ BAND PASS FILTER



**FBPD50**

Passes channels 40 to 45 (ch block D, blue) with up to 50dB rejection of all other communications. Return Loss >20dB typical. 13 x 48mm (58mm incl F connector).

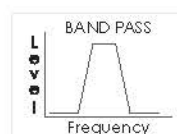
#### 652-694MHZ BAND PASS FILTER



**FBPE50**

Passes channels 46 to 51 (ch block E, grey) with up to 50dB rejection of all other communications. Return Loss >20dB typical. 13 x 48mm (58mm incl F connector).

#### FRACARRO



**FB4**

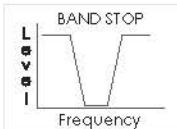
Weatherproof masthead B4 Pass filter. Typical through loss -1dB.

# Duplexers, Filters & Passives

## FM (88-108MHz) REJECTION FILTERS

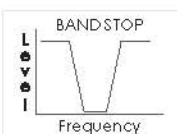
Eliminate FM radio interference. Amplifiers increase harmonics with harmful 88-108MHz harmonics often falling in TV band 3.

**FRACARRO**



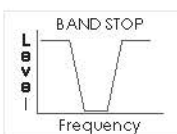
**FS/FM** Fracarro Masthead Filter, >-40dB to -50dB. Screw and saddle terminals.

**LABGEAR**



**FM50FV** >-50dB FM filter, 88-108MHz, F type connectors. Weatherproof for outdoor use.

**FRACARRO**



**FP/FM** Fracarro FM Filter >-50dB to -55dB. M-F PAL 9.5mmØ connectors. Only for indoor use.

## ISOLATOR



**IS3KV** Centre conductor and braid isolator. <1dB insertion loss 5-1000 MHz. Blocks potentially dangerous voltages up to 3kV that accumulate in MATV and Cable TV systems. Can also provide isolation to non-isolated TV outlet plates.

## ANTENNA SWITCH

**Aerial Industries AI**

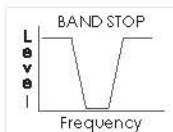


**HIGH ISOLATION**

**AISW2** 2 way antenna switch, F connector. 0.5dB insertion loss with >50dB isolation. Permits weak and strong signals to coexist, with quality leads.

## UHF NOTCH FILTERS

**FRACARRO**

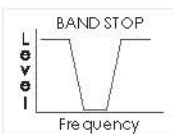


**SF4** Band 4, 2x -15 / 1x -30dB notches, user tunable.

**SF5** Band 5, 2x -15 / 1x -30dB notches, user tunable. Power pass SF5 only!

Allow either 2 frequencies to be attenuated by 15dB each or 1 frequency to be attenuated by 30dB. Tuning is easiest with a noise generator and a meter with a spectrum function.

**FRACARRO**



**FS/AU28**

Pre-designed for max. rejection of Au Ch.28 to enable reception of weak UHF. Adjustable ±3 channels. Allow 1 Ch. either side. Weatherproof. Other channels available — made to order.

## DC BLOCKS



**FBLKDC** Block AC/DC Power path, ≤1dB insertion loss @ 1750MHz.

**Aerial Industries AI**



**AIDCB** F Connector DC block, 5-3000MHz.

## MULTI BAND PASS FILTER COMBINER

**Kingray**



**FL3BPMH**

Weatherproof with options of 1, 2, and / or 3 inputs. Rejects MW and 27MHz radio -40dB, VHF low -12dB (variable), FM radio -30dB (selectable), 148MHz paging -30dB, UHF comms -40dB and GSM -20dB and CDMA -30dB, TV <2dB loss.

# Index of Products

## Symbols

3DG-2S2-2T 109  
3DGFLEX 109  
4E2 15  
4E3 15  
4E512F 14  
6D 14  
6DF 14  
6E6 14  
6E7 14  
6E12F 14  
6E512F 13  
6H1 14  
10/4753/R 16  
10/6269/R 16  
10BL5F 17  
10BL45F 17  
10F2734 16  
10F3546 16  
10F4769 16  
10RD4F 18  
10RD5F 18  
11D 14  
11E6 14  
11E7 14  
11E8 14  
11H 14  
11H1 14  
20/5461 16  
20ALFA 16  
20BL4F 17  
20BL5F 17  
20BL45F 17  
20DELTA 16  
20RD4F 18  
20RD5F 18  
76BGS36 43  
1405RB 58  
1405RW 58  
1407RB 58  
1407RW 58  
2030F 69  
2030SC 69  
2122.. 72  
2305.. 72  
2355.. 72  
2396.. 72

## A

A1PA 20  
AA2501 50  
AA2502 50  
AA2503 50  
AA2504 50  
AA3501 50  
AA3502 50  
AA3503 50  
AA3504 50  
AA3505 50  
AA3506 50  
AA3507 50  
AA3508 50  
AA3509 50  
AA3510 50  
AA3511 50  
AA6301 50  
AA6302 50  
AA6303 50  
AA6304 51  
AA6305 51  
AA6306 51  
AA6307 51  
AA6308 51  
AA6309 51  
AA6310 51  
AA6312 51  
AARC01 52  
AARC02 52  
AARC03 52  
AARC04 52  
AARC05 52  
AARC06 52  
AARC08 52  
AARC09 52  
AARC10 52  
AARC11 52  
ADSLFL01 77  
ADSLFL02 77  
ADSLFL03 77  
AFI112LTE700AUS 32  
A14A 13  
A16A 13  
A123 142  
A1A86232 127  
AID65 142  
AID80 142  
AID90 142  
AIDCB 90  
AIDCBT 55  
AIFLP3 13  
AIL107T 143  
A1MA224E 30  
A1MA236E 30  
A1MS2W4 125  
A1MS2W8 125  
A1MS3W4 125  
A1MS3W8 125  
A1P12W 146  
AISP2 83  
AISP4 83  
AISW2 90  
A1TP10 86  
A1TP16 86  
A1TP22 86  
A1TVF 96  
AMP522AM 126  
AMP9762 33  
AMP9763 35  
AMP9763B 35  
AMP9764 34  
ANT1200A 20  
ANT3030810 20  
ANT3100510 14  
AP201S 92  
AP201 S PLUS 92  
AP201 S PLUS (DVB-S) 92  
AP2502 51  
AP3501 51  
AP3502 51  
AP6301 51  
AP6302 51  
AP6303 51  
AP6304 51  
AQUASEAL-1 23  
AQUASEAL-B 23  
AR1001 46  
AR1202 46  
AR1203 46  
AR1204 46  
AR1205 46  
AR1206 46

AR1207 46  
AR1208 46  
AR1209 46  
AR1230 46  
AR1250 46  
AR1307 47  
AR1310 47  
AR1330 47  
AR1350 47  
AR1403 47  
AR1407 47  
AR1518 47  
AR1530 47  
AR1550 47  
AR3309 47  
AR3318 47  
AR3350 47  
AR4309 47  
AR4310 47  
AR4318 47  
AR4330 47  
AR4350 47  
AR12051 46  
AR12063 46  
AR12065 46  
AR120610 46  
AR120615 46  
AS2010 59  
AS3106 59  
AS3200 59  
AS3501 61, 80  
AS3811 59  
AT2/.. 35  
AT75-20 88  
AT7520F 88  
AT7520M 88  
AVC3356 49  
AVYUV4RC 43

## B

BA7001 53, 139  
BA7002 53, 139  
BA7003 53  
BA7004 53, 139  
BA7005 53, 139  
BA7008 53  
BA7009 53  
BA7011 53, 139  
BA7016 53  
BA7017 53  
BA7022 53, 139  
BA7023 53, 139  
BA7024 53  
BA7025 53, 139  
BC12DC 98  
BC75AC 98  
BC75DC 98  
BC7003 53  
BC7007B 53, 139  
BC7007C 53  
BC7007D 53, 139  
BC7009B 53, 139  
BC7009C 53  
BC7014 53  
BC7015 53  
BCH16 92, 93  
BH900 22  
BKT193RU 37, 106, 123  
BLU220PLUS 18  
BLU420F 18  
BLU424F 18

BLU425F 18  
BLV4F 14  
BLV6F 14  
BM-MB 103  
BM-MRB 103  
BM-MS 103  
BMR3X 43  
BM-R25S 103  
BM-S50S 103  
BM-SEB 103  
BM-SES 103  
BM-SXS 103  
BM-VCRB 103  
BM-VCRS 103  
BP3 98  
BP4 98  
BP5 98  
BP6 98  
BP7 98  
BP8 98  
BR2-AA 116  
BR4-AA 116  
BR14.4U 92, 93  
BS20 88  
BS30 88  
BS1234 98  
BS1272 98  
BT1 69  
BT2F 69  
BT2PAL 69

## C

C5RB 57  
C6RB 57  
C7RB 57  
C7S1B 57  
C7S2B 57  
C8RB 57  
C10RB 57  
C20BAG 98  
C-1001 92, 93  
CA1 16, 17  
CA16 15  
CA215 33  
CA310 33  
CA311 33  
CA313 33  
CA730 34  
CAB6OUTPOWER 79, 105  
CAB6RUMINI 78, 104  
CAB8OUTPOWER 79, 105  
CAB9RUMINI 78, 104  
CAB10OUTPOWER 79, 105  
CAB12OUTPOWER 79, 105  
CAB15OUTPOWER 79, 105  
CAB18BP4U 105  
CAB19BP1U 105  
CAB19BP2U 105  
CAB19BP3U 105  
CAB19BP05 105  
CAB19BR1U 79, 105  
CAB19CAST 79, 105  
CAB19CFAN 79, 105  
CAB19CMR1 79, 105  
CAB19RP2U 79, 105  
CAB19RP4U 79, 105  
CAB19RP6U 79, 105  
CAB192U400SH 79, 106  
CAB1945SH 79, 106  
CAB1955H06 78, 105  
CAB1955H09 78, 105

# Index of Products

- CAB1955H12 78, 105  
CAB1960SH 79, 106  
CAB1960SS 79, 106  
CAB191506 79, 104  
CAB191509 79, 104  
CAB191512 79, 104  
CAB193002W 79, 104  
CAB193003W 79, 104  
CAB193004W 79, 104  
CAB193006W 79, 104  
CAB194506B 104  
CAB194509B 104  
CAB194512B 104  
CAB194515B 104  
CAB196020B 78, 104  
CAB196025B 78, 104  
CAB196030B 78, 104  
CAB196035B 78, 104  
CAB196042B 78, 104  
CAB196046B 78, 104  
CAB198042B 78, 104  
CABLETIDY 57  
CAD11 84  
CAD12 84  
CAD13 84  
CAD14 84  
CAPM25 21  
CAPM32 21  
CAPM38 21  
CAT5E/305 50, 75  
CAT5JOINER 77  
CAT6/305 50, 75  
CAT6/305F 50, 75  
CAT6A/305 50  
CAT6A/305F 75  
CAT6JOINER 77  
CB382P 26  
CB3825P 26  
CBK6 22  
CBK12 22  
CCBKIT 22  
CD12 84  
CD142 84  
CD144 84  
CD201 84  
CD202 84  
CD204 84  
CD262 84  
CD264 84  
CDBC 28  
CDIN2F 51  
CDIN2M 51  
CEF8 55  
CEM3-6 27  
CF-511 34  
CFB1212 22  
CFB1512 22  
CFB1812 22  
CFB2716 22  
CFD21B 142  
CH01 40  
CIR700-36 135  
CIR700-49 135  
CJ59H 55  
CL449A 69  
CL449AS 69  
CLT2 58  
CMCP13 79, 105  
CMS-EYE 57  
CMS-GRABBIT 57  
CMS-HOOK 57  
CMS-ROD 57  
CN9 84  
COM6 124  
COM12 124  
CS382 26  
CS3815 26  
CS3825 26  
CS51615 26  
CS51625 26  
CSVMD4 51  
CT100 58  
CT190 58  
CT300 58  
CT350 58  
CTR500 98, 140  
CVNWM2 28  
CVNWP 28  
CWDMM2 113  
CWDMM5 112  
CXLRFL 51  
CXLRFP 51  
CXLRML 51  
CXLRMP 51
- D**  
DA10-VOICE CONNECT 76  
DA43 34  
DAAMP5 126  
DAILKJ 77  
DAILKJ-C6 77  
DAS202 95  
DAT103 94  
DCB 23  
DCC225 124  
DCC304 124  
DCC404 124  
DE1-10 86  
DE1-14 86  
DE1-18 86  
DE1-22 86  
DE2-10 86  
DE2-14 86  
DE2-18 86  
DE2-22 86  
DE4-12 86  
DE4-14 86  
DE4-18 86  
DE4-22 86  
DE6-16 86  
DE6-20 86  
DE6-25 86  
DE8-16 86  
DE8-20 86  
DE8-25 86  
DG OHM COMPACT 93  
DG-OHM FULL HD 93  
DG-OHM HD 93  
DIGIT-65 142  
DKG-GF-B 24  
DKG-GF-S 24  
DKG-KIT-B 24  
DKG-KIT-S 24  
DKG-MF-B 24  
DKG-MF-S 24  
DL110 61, 80  
DL304IDC 62, 80  
DL314KR 61, 80  
DL501 59  
DL518 61  
DL702A 62, 80  
DL801F 60  
DL806H 60  
DL806J 60  
DL807 61  
DL808 61  
DL1068 61, 80  
DL2668R 62, 80  
DL5206 59  
DLA002 116  
DM36/10 86  
DM36/13 86  
DM36/16 86  
DM36/19 86  
DM37 86  
D-MATRIX-4S EVO 108  
D-MATRIX-8T 108  
DNP10 26  
DNP12 26  
DPOUVFSDP 87  
DSD4121RVPVRREADY 149  
DSQ4B 146  
DSQ4W 146  
DSR46391TB 149  
DVBS2-800CA 149  
DVMI 22  
DVRMILANO16 134  
DVRSDI2-8 134  
DVRVENEZIA4 960H 133  
DVRVENEZIA16 960H 133  
DW32 34  
DW42 34
- E**  
EC7001 53  
EC7002 53  
EC7003 53  
EC7004 53  
EC7005 54  
EC7006 54  
EC7007 54  
EC7008 54  
EC7009 54  
EC7010 54  
EC7011 54  
EC7012 54  
EC7013 54  
EC7016 54  
EC7017 54  
EC7018 54  
EC7019 54  
EC7020 54  
EC7022 54  
EC7023 54  
EC7024 54  
EC7026 54  
EC7027 54  
EM230 21  
EM280 21  
EM690 21  
EM1020 21  
EM1500 21  
EMK 21  
ES345/32 87  
ES345/39 87  
ES1008P 77  
ESV45 87  
ESV45S 87  
ESVU 87  
ESVUU 87  
EU503 69  
EU503DE 69  
EU503F 69  
EU503ISOL 69  
EU503PF 69  
EZYGUTTERMOUNT 145
- F**  
FA1-6 85  
FA1-8 85  
FA1-10 85  
FA1-12 85  
FA1-16 85  
FA1-20 85  
FA1-24 85  
FA1-30 85  
FA2-8 85  
FA2-10 85  
FA2-12 85  
FA2-16 85  
FA2-20 85  
FA2-24 85  
FA2-30 85  
FA4-10 85  
FA4-12 85  
FA4-14 85  
FA4-16 85  
FA4-18 85  
FA4-20 85  
FA4-24 85  
FA4-27 85  
FA4-30 85  
FA4-MT 86  
FA8-14 85  
FA8-16 85  
FA8-18 85  
FA8-20 85  
FA8-24 85  
FA8-27 85  
FA8-30 85  
FA7001 54  
FA7001N 54  
FA7002 54  
FA7002FA 54  
FA7004 55  
FA7006 55  
FA7013 55  
FA7014 55  
FA7015 55  
FA7016 55  
FA7017 55  
FA7018 55  
FA7019 55  
FA7022 55  
FA7023 55  
FA7024 55  
FA7025 55  
FA7026 55  
FAE50 89  
FAE60 89  
FAS1-12 86  
FAS1-15 86  
FAS2-12 86  
FAS2-15 86  
FAS4-15 86  
FAS4-25 86  
FATT3 88  
FATT6 88  
FATT6PP 88  
FATT12 88  
FATT12PP 88

# Index of Products

FATT24 88  
FATT24FP 88  
FB4 89  
FB607042A 145  
FBLKDC 90  
FBPA50 89  
FBPB50 89  
FBPC50 89  
FBPD50 89  
FBPE50 89  
FC7001B 56  
FC7002B 56  
FC7002C 56  
FC7004B 56  
FC7005 56  
FC7005L 56  
FC7006B 56  
FC7006C 56  
FC7006D 56  
FC7008B 56  
FC7008C 56  
FC7009B 56  
FC7009C 56  
FC7013C 56  
FC7014 55  
FC7016 56  
FC7017 56  
FC7018 56  
FC7019C 56  
FC7019D 56  
FC7020 56  
FC7022 56  
FC7023 56  
FC7024 56  
FC7025 56  
FC7026 56  
FCBOOT 56  
FCGB1 56  
FCV300 93  
FDC12B 85  
FDC17B 85  
FDC23B 85  
FH1 88  
FHP12 97, 114  
FKLA 23  
FL0.5MMRRBQUAD 48  
FL3BPMH 90  
FL10FFSBQUAD 48  
FL10FMSBQUAD 48  
FL10MMRW 48  
FL15MFSB 48  
FL15MFSBQUAD 48  
FL15MFSW 48  
FL15MMSB 48  
FL15MMSW 48  
FL18FFMMW 48  
FL18FFSBQUAD 48  
FL18FMSBQUAD 48  
FL18FMSWQUAD 48  
FL18MFSBQUAD 48  
FL18MMSBQUAD 48  
FL18MMSWQUAD 48  
FLEXITILE 23  
FLRJ45F 74  
FM50FV 90  
FO-SC/APC-DEC 116  
FP2E 92, 93  
FP/FM 90  
FRPRO10 110  
FS/AU28 90

FS/FM 90  
FWM 24

## G

GAP 25  
GCG25 25  
GELCON2 77  
GELCON3 77  
GMANT2 21  
GPA32 26  
GPB39 26  
GPC43 26  
GPD50 26  
GW30/6X1.12 25  
GW180/7.90 25  
GWC3 25  
GWC5 25

## H

HC01 40  
HD1TB 139  
HD2TB 139  
HD3TB 139  
HD4TB 139  
HD6TB 139  
HD8TB 139  
HDC6IRL 41  
HDEZILOCK 41  
HDM20 45  
HDMIB1.5 45  
HDMICA3 45  
HDMIDVI 41  
HDMie0.5 45  
HDMie1.0 45  
HDMie2.0 45  
HDMie3 45  
HDMie3.0 45  
HDMie5.0 45  
HDMie8.0 45  
HDMie10 45  
HDMie15 45  
HDMIFF 41  
HDMIHV1 45  
HDMIHV2 45  
HDMIHV3 45  
HDMILP2.0 45  
HDMIMATRIX4X2 40  
HDMIMFRA 41  
HDMIRAMFA 41  
HDMIREP 40, 45  
HDMISP2 40  
HDMISP4 40  
HDMISP8 40  
HDMISP16 40  
HDMISW1X3 40  
HDMISW3 40  
HDT1500 145  
HHS242 148  
HHT651 148  
HIR434 42  
HL90 128  
HL103 128  
HL107 128  
HL108 128  
HL111 128  
HL112 128  
HL500FM 128  
HL500RAFM 128  
HL500SPLICE 128  
HL500ST 128  
HL750SL 128

HL7001 128  
HLFC6 128  
HLHT106 128  
HLPG11-PG11 128  
HLPG11-RG11 128  
HLPG111-5/8 128  
HMFB001 146  
HN14P 26  
HN38P 26  
HN316P 26  
HN516P 26  
HSB45 22  
HSB90 22  
HT0037 62, 80  
HT106A 60  
HT109 59  
HT218 58  
HT224A 60  
HT224D 60  
HT501 59  
HT507 61  
HT516A 61  
HT516B 61  
HT601B1 60  
HT807RG611 61  
HT2206F 60  
HTSPEEDTERM 62, 80  
HVS580 42  
HVS890 22  
HW13M4 26

## I

INC01 96, 146  
IREHDMI 42  
IREUSB 41  
IREUSB4 41  
IS3KV 90

## J

JBSS16 22  
JBSS 22  
JCASS-500-P3 49  
JS26A00 59

## K

K120A/.. 117  
K120L 35  
K120L/.. 117  
KA400 119  
KA800 119  
KCMU 117  
KCMU/S 117  
KCPN 118  
KD100 119  
KDTR-S 118  
KF/AU.. 117  
KFCJ21 143  
KFH21 143  
KFH22N 144  
KFM21 143  
KITKCPN5 118  
KITLPV345FRP 27  
KITVASTCARAVAN 27, 146  
KITVASTCVN2 27  
KMS 117  
KP15 119  
KP35 119  
KP62 119  
KPN42 119  
KPN51 119  
KPR41 119

KPS06 36  
KPS08 36  
KPS08F 36  
KRF15 119  
KRF45 119  
KRX 115  
KSP1-2 116  
KSP1-4 116  
KTX 115  
KW33B 118  
KW33C 118  
KW35E 118  
KW44C 118  
KX125 118

## L

LA2-20 35  
LARM 23  
LARMWH 23  
LCD201L 103  
LCDUCM 103  
LCDWA5 102  
LDA03-113N 101  
LDA03-113S 101  
LDA03-223N 101  
LDA03-223S 101  
LNB DUALAUSTAR 144  
LNBQUAD 144  
LP3F 12, 13  
LP4F 12  
LP45F 12  
LP45HV 10  
LP45NF 12  
LP345F 11  
LP345MF 11  
LP345MHV 10  
LP6363 101  
LP6448 101  
LPA13-444BL 101  
LPA13-484BL 101  
LPA13-484CBL 102  
LPA50443 101  
LPV345F 11  
LPV345HV 10  
LRA32 26  
LRB39 26  
LRC47 26  
LRD50 26

## M

M1-4/5FV 87  
M1825 21  
M1832 21  
M2425 21  
M2432 21  
M3032 21  
M3632 21  
M4532 21  
M4538 21  
MAGICSTRIP 57  
MBX5710 32  
MBX7750 33  
MD100US 38  
MD100VS 38  
MDA15U 31  
MDA15V 31  
MDA15W 31  
MDA20HT 31  
MDA20UT 31  
MDA3047 127  
MDA6587 127

# Index of Products

- ME900 21  
ME1200 21  
ME1500 21  
ME1800 21  
MEKIT 21  
MEX800/06 127  
MEX800/08 127  
MHBT 69  
MHBTW 69  
MHU25F 31  
MHU25FS 31  
MHU35F 31  
MHU35FS 31  
MHW25F 31  
MHW25FE 31  
MHW25FS 31  
MHW35F 31  
MHW35FS 31  
MHW43FS 31  
MIN/MIN 114  
ML01 126  
ML02 126  
MM214 88  
MM807 87  
MOD1BKT 37, 123  
MOD1HD 37, 123  
MP04AF 119  
MP05AF 119  
MP13AF 119  
MP45AF 119  
MS24SM 126  
MS28SM 126  
MS34SM 126  
MS38SM 126  
MS58SM 125  
MS100 126  
MS206 126  
MS512SM 125  
MS516SM 125  
MS524SM 125  
MS532SM 125  
MT510 126  
MT515 126  
MT520 126  
MVUVF 87  
MW13FR 70  
MW113A35 71  
MW113BL 71  
MW113BNC 71  
MW113BR 70  
MW113C6M 71  
MW113DVI 71  
MW113FF 70  
MW113FF2 70  
MW113FR 70  
MW113HDMI 71  
MW113KS 71  
MW113PF 71  
MW113RCA1 70  
MW113RCA2 70  
MW113RCA3 70  
MW113RGB 70  
MW113SPK 71  
MW113TOS 71  
MW113USB2 71  
MW113USB3 71  
MW113VGA 71  
MX51HLF 87  
MX61UVF 87  
MX201 87
- MX206 87  
MX208 87  
MXA0F 87
- N**  
NBNENC 79, 106  
NBNFK 106  
NG96F 92  
NG500 93  
NG754X 96  
NIITO-11 57
- O**  
OLS7315 97  
OPM6010 97  
OPSP1X2 116  
OPSP1X4 116  
OPSP1X5 116  
OPSP1X6 116  
OPSP1X8 116  
OPSP1X9 116  
OPSP1X10 116  
OPSP1X12 116  
OPTATT3DB 114, 116  
OPTATT5DB 114, 116  
OPTATT7DB 114, 116  
OPTATT10DB 114, 116  
OPTATT14DB 114, 116  
OPTATT15DB 114, 116  
OPT-RX-4MINI 112  
OPT-RX51 115  
OPT-RX54 115  
OPTRX-DT 112  
OPT-RXTV 112  
OPT-TX51 115  
OPT-TX54 115  
OPTTX-1510 111  
OPTTX-1530 111  
OPTTX-1550 111  
OPTTX-1570 111  
OPTTX-DT 111  
OT1009 47  
OT1018 47  
OT1030 47  
OT1050 47  
OT1100 47  
OT1150 47  
OT1200 47  
OTDIV 43  
OTJOIN 43  
OTMADA 43
- P**  
PA2 84  
PA3 84  
PA4 84  
PA6 84  
PA8 84  
PATCH10BRACKET 76  
PATCH108PC5E 76  
PATCH108PC6 76  
PATCH1012PC5E 76  
PATCH1012PC6 76  
PATCHCAT5E12W 76  
PATCHCAT5E24 76, 105  
PATCHCAT6A24 74  
PATCHCAT612W 76  
PATCHCAT624 76, 105  
PATT3 88  
PATT6 88  
PATT12 88
- PATT24 88  
PCCAT6.3-BLACK 75  
PCCAT6.5-BLACK 75  
PCCAT6.5-BLUE 74  
PCCAT6.5-GREEN 75  
PCCAT6.5-RED 75  
PCCAT6.5-WHITE 74  
PCCAT6.5-YELLOW 75  
PCCAT6A1 74  
PCCAT6A2 74  
PCCAT6A3 74  
PCCAT6A5 74  
PCCAT6A10 74  
PCCAT61-BLACK 75  
PCCAT61-BLUE 74  
PCCAT61-GREEN 75  
PCCAT61-RED 75  
PCCAT61-WHITE 74  
PCCAT61-YELLOW 75  
PCCAT62-BLACK 75  
PCCAT62-BLUE 74  
PCCAT62-GREEN 75  
PCCAT62-RED 75  
PCCAT62-WHITE 74  
PCCAT62-YELLOW 75  
PCCAT63-BLACK 75  
PCCAT63-BLUE 74  
PCCAT63-GREEN 75  
PCCAT63-RED 75  
PCCAT63-WHITE 74  
PCCAT63-YELLOW 75  
PCCAT65-BLACK 75  
PCCAT65-BLUE 74  
PCCAT65-GREEN 75  
PCCAT65-RED 75  
PCCAT65-WHITE 74  
PCCAT65-YELLOW 75  
PCCAT610-BLACK 75  
PCCAT610-BLUE 74  
PCCAT610-GREEN 75  
PCCAT610-RED 75  
PCCAT610-WHITE 74  
PCCAT610-YELLOW 75  
PCCAT615-BLACK 75  
PCCAT615-GREEN 75  
PCCAT615-RED 75  
PCCAT615-WHITE 74  
PCCAT615-YELLOW 75  
PCCAT620-BLACK 75  
PCCAT620-GREEN 75  
PCCAT620-RED 75  
PCCAT620-WHITE 74  
PCCAT620-YELLOW 75  
PCCATA1 74  
PENTA-85 142  
P2G 146  
PI-8AL 37  
PICA524WHITE 62  
PICA524YELLOW 62  
PICADRY 62  
PICAINK-BLACK 62  
PICAINK-BLUE 62  
PICAINK-RED 62  
PICAREFILL-WR 62  
PICAREFILL-WS 62  
PIGTAIL 116  
PIK170FDC 37  
PIK2750 37  
PK3940 74  
PLB13 100
- PLB17 100  
PLB34 100  
PLB34L 100  
PLB35L 102  
PLB44 100  
PLB45 102  
PLB46F 100  
PLB47 102  
PLBWA7 102  
PR003 114  
PR005 114  
PR010 114  
PR025 114  
PR100 114  
PRADAPTER-SC/MINI 114  
PRB1 103  
PRO1059 42, 43  
PRO1188A 43  
PRO1188AS 43  
PRO1235D 42  
PRO1235DS 42  
PRO1235DSWP 42  
PRO1254D 42, 43  
PRO1259 43  
PRO1287 43  
PRO1326 42  
PS5DCP 36  
PS12DCF 36  
PS12DCP 36  
PS14DCF 36  
PS14DCP 36  
PS17ACP 36  
PS18DCF 37  
PS22ACF 36  
PS22ACP 36  
PS24DCP 36  
PSK06 36  
PSK06F 36  
PSK08 36  
PSK08F 36  
PSK12F 36  
PSK12S 36  
PSK18F 36  
PSK18KR 36  
PSK18S 36  
PSUSBA1A 46  
PU4AF 19  
PU4F 19  
PU8F 19  
PU16F 19  
PULLCON 114  
PV2 23  
PV8 23  
PV10 23  
PVCBK 57  
PVP 23  
PVZ-60 23  
PW8018 139  
PW8050 139  
PW8204 139  
PW8208 139
- R**  
RAWM 24  
RCA90B 52  
RCA90R 52  
RCAF01B 52  
RCAF01R 52  
RCAF02B 52  
RCAF02R 52  
RCAM01B 52



# Index of Products

- RCAM01R 52  
RCAM01Y 52  
RCAM02 52  
RCAM02B 52  
RCAM02R 52  
RCAM03 52  
RCAM04B 52  
RCAM04R 52  
RCAM6 52  
RCAM59 52  
RCAMC6 52  
RCAMC59 52  
RFD2169BF 38  
RFD2169IR 38  
RG6/30B 48  
RG6/100B 48  
RG6/100W 48  
RG6/305B 48  
RG6Q/30B 49  
RG6Q/100B 49  
RG6Q/150BSIAM 49  
RG6Q/150B/SIAMFA 49  
RG6Q/305B 49  
RG6Q/305BE 49  
RG6Q/305B/SPOOL 49  
RG6Q/305FA 49  
RG6QF/305B 49  
RG6QF/305FA 49  
RG6QLSZH 49  
RG6QM/305B 49  
RG11/BELDEN 49  
RG11Q/305B 49  
RG11Q/305FA 49  
RG11QF/305B 49  
RG11QF/305FA 49  
RG59/30B 48  
RG59/100B 48  
RG59/305B 48  
RG59AV3 48  
RG59SEC/250B 49, 139  
RG59SECPWR/100B 49, 139  
RJ12FF 78  
RJ45FF 78  
RJ45KS 68  
RJ126P6C/SLD 78  
RJ458P8C 78  
RJ458P8C/100 78  
RJ458P8C/SLD 78  
RJ458P8C/SLD/100 78  
RJ458P8C/TOOLLESS 78  
RMI1812 21  
RM2716 21  
RMI 24  
RMT120 24  
RODKIT4MM5M 57  
RODKIT6MM6M 57  
RS1265 26  
RS14100 26  
RT3 57  
RT6 57
- S**  
SA162F 35  
SA164F 35  
SA504B 59  
SADC8HC-G 127  
SADC12HC-G 127  
SAM840 26  
SAM890 26  
SAM1050 26  
SAM1075 26  
SAS2HC-G2 127  
SAS3HC-G3 127  
SAS3U-G 127  
SAT2G-4 128  
SAT2G-8 128  
SAT2G-11 128  
SAT2G-14 128  
SAT2G-17 128  
SAT2G-20 128  
SAT2G-23 128  
SAT2G-26 128  
SAT2G-29 128  
SAT4G-8 128  
SAT4G-11 128  
SAT4G-14 128  
SAT4G-17 128  
SAT4G-20 128  
SAT4G-23 128  
SAT4G-26 128  
SAT4G-29 128  
SAT4G-32 128  
SAT29D 34  
SAT42D 34  
SATCM 145  
SATFM 145  
SATFMHD 145  
SATGM 145  
SATMM8-11 128  
SATMM8-14 128  
SATMM8-17 128  
SATMM8-20 128  
SATMM8-23 128  
SATMM8-26 128  
SATMM8-29 128  
SATWM 145  
SB5-65 92  
SB1060 26  
SB1216 22  
SB1816 22  
SB2416 22  
SBC25 22  
SBC32 22  
SBC38 22  
SBF700 22  
SBF900 22  
SB17-312WDR 135  
SB17-922 135  
SB1628 135  
SB1636 135  
SB1660 135  
SBS16 145  
SBVP01 139  
SBVP45HD 139  
SC3162 26  
SC316175 26  
SC/APC-SC/APC 114, 116  
SCR41S 144  
SE3 25  
SE4 25  
SE5 25  
SE7 25  
SECP512DC1.5 138  
SECP512DC5A 138  
SF4 90  
SF5 90  
SHK-01 103  
SI104T 132  
SI108T 132  
SI216T 132  
SI10404 130  
SI10808 130  
SI21616 131  
SI63216 131  
SIB2MWDRAHD 136  
SIB2MWDRIIP 137  
SIB4M5IP 137  
SIB13MAHD 136  
SID1.3MAHD 136  
SID2MWDRAHD 136  
SID2MWDRIIP 138  
SID2MWDRIIPVFAHD 136  
SID4M5IP 138  
SID4M5VFIIP 138  
SID13MAHD 136  
SIG7100 121  
SIG7111 122  
SIG7120 120  
SIG7121 120  
SIG7282 122  
SIG7282S 122  
SIG7330 121  
SIG7340 121  
SIG7400 122  
SIG7401 122  
SIG7531 120  
SIG7540 120  
SIG7600-HTX 120  
SIG7622 120  
SIG7624 120  
SIG7710 121  
SIG7720 121  
SIG7730 121  
SIG7900 122  
SIG7901 123  
SIG7902 123  
SIG7904 123  
SIG7905 122  
SIG9506S 125  
SIG9606S 125  
SIGMA6HDLTE 15  
SIGMA9 15  
SIGMAPOWERHD 15  
SIPTZ3X2MAHD 137  
SIPTZ10X2MAHD 137  
SIPTZ10X2MIP 137, 138  
SISD2MAHD 136  
SISD20MAHD 136  
SJA 146  
SJV6 146  
SP2SDP 83  
SP2TIP 82  
SP3SDP 83  
SP3TIP 82  
SP4SDP 83  
SP4TIP 82  
SP5TIP 82  
SP6SDP 83  
SP6TIP 82  
SP8SDP 83  
SP8TIP 82  
SP22GDV 83  
SP32GDV 83  
SP42GDV 83  
SP52FA 126  
SP54FA 126  
SP275F 82  
SP275FG 82  
SP275FPV 82  
SP375FPV 83  
SP475FG 82  
SP475FPV 83  
SP1275FP 82  
SP1675FP 82  
SP6125 84  
SP6126 84  
SP6127 84  
SPK-10 49  
SPK-12 49  
SPK-14 49  
SPK-16 49  
SPK-18 49  
SPK-2224 49  
SPK-2924 49  
SPK-4176 49  
SPKC165 44  
SPK-CM800 44  
SPK-ECS6.5 44  
SPK-ECS8 44  
SPKEWS530C 44  
SPKEWS600 44  
SPKOD5B 44  
SPKOD5W 44  
SPK-RCSR650 44  
SPK-RCSR800 44  
SPKWS612 44  
SQ722 96, 146  
SRC101 43  
SS3825P 26  
STRAP-SEAL 22  
SUVTM 84  
SUVTP 84  
SWI4508DT 113, 125  
SWI4512DT 113, 125  
SWI4516DT 113, 125  
SWI4524DT 113, 125  
SWI4532DT 113, 125
- T**  
TB14 26  
TB516 26  
TBS 26  
TC870C 96  
TC7001 55  
TC7002 55  
TE75PAL 55  
TE75SC 55  
TERZA6HD 13  
TFM 26  
THORNYDEVIL 24  
T468 58  
T1800 58  
T1SG1005D 77  
T1SG1008D 77  
T1SG1016D 77  
TM20 26  
TM30 26  
TM40 26  
TM50 26  
TMA20 26  
TMA30 26  
TMA40 26  
TMA50 26  
TMU/2 85  
TMU/4 85  
TORCHHEAD 72  
TORCHHEAD-REC 72  
TPE 119  
TRIKIT 25  
TRIKIT2 25  
TRIKITCOM 25

# Index of Products

TRMF-S 25  
TRMIRON. 25  
TRMIRONCB. 25  
TRMIRONCB. 25  
TRMIRONGR. 25  
TRMRUBBER 25  
TRMTILE 25  
TRMTILE. 25  
TRMTILECB. 25  
TRMTILEGR 25  
TRMTILEGR. 25  
TS1949 60  
TS2011 60  
TVL242 28, 101  
TVR300 49

## U

UB51685 23  
UB516140 23  
UEM2 21  
USB1AA 46  
USBAL1.2Q 46  
USBAM1.2 46

## V

VASTCAM 123  
VBOFFSET 23  
VBP 23  
VGA2 47  
VGA3 47  
VGA5 47  
VGA10 47  
VGA15 47  
VGA20 47  
VGA25 47  
VGAM/F10 47  
VGAM/F15 47  
VGAM/F20 47  
VOT1/2 114  
VOT2/3 114  
VOT3/4 114  
VOT7/3 114  
VOT8/2 114  
VOT9/1 114  
VOV2 114  
VOV4 114  
VPB1 24  
VS2KIT 47  
VS2001 47  
VS2002 47  
VS2012 47  
VS2015 47  
VS2018 47  
VS2020 47  
VS2021 47  
VS2051 47

## W

WBS 69  
WCP 69  
WN316 26  
WP5 63  
WP5F 63  
WP5/ISOL 63  
WPB 63  
WPBP2 64  
WPBULLNOSEB 64  
WPBULLNOSE/FLUSH 64  
WPBULLNOSEW 64  
WPBULLRECESSB 64  
WPBULLRECESSW 64

WPBULLSLIMW 64  
WPC1 65  
WPC2 65  
WPC3 65  
WPC4 65  
WPC6 65  
WPCA1 65  
WPCA2 65  
WPCABP 65  
WPCB 65  
WPCBRUSH 64  
WPCC1 65  
WPCC2 65  
WPCC3 65  
WPCC4 65  
WPCC6 65  
WPCCS1 67  
WPCCS2 67  
WPCCS3 67  
WPCCS4 67  
WPCCS5 67  
WPCCS6 67  
WPCCSB 67  
WPCS1 65  
WPCS2 65  
WPDE 63  
WPE1 68  
WPE2 68  
WPE3 68  
WPE4 68  
WPE6 68  
WPF 63  
WPFOFFF 63  
WPFOFFRJ12 63  
WPFTAP 63  
WPM500B 68  
WPM619KC 68  
WPM619M4 68  
WPM619MM 68  
WPMBPB 68  
WPMBPGB 68  
WPMBPGR 68  
WPMBPR 68  
WPMCB 67  
WPMCBNCBNC 67  
WPMCBNCF 67  
WPMCBPGB 66  
WPMCBPGR 66  
WPMCCAT5EW 67, 77  
WPMCCAT6 67, 77  
WPMCCAT6W 67, 77  
WPMCCFF 66  
WPMCCFFFA 66  
WPMCHDMI 66  
WPMCHDMIRA 66  
WPMCHDMITAIL 66  
WPMCM3 67, 77  
WPMCPF 66  
WPMCPFRA 66  
WPMCRCAF 66  
WPMCRCARCA 66  
WPMCRCASB 67  
WPMCRCASG 67  
WPMCRCASY 66  
WPMCRJ11 67, 77  
WPMCRJ45 67, 77  
WPMCS3.5 67  
WPMCSW16A 67  
WPMCUSB 67  
WPME 68

WPMFF 68  
WPMFFP 68  
WPMHDMI 68  
WPMMPF 68  
WPMRF 68  
WPMRS 68  
WPMTELW 67, 77  
WPRCA2 64  
WPRCA4 64  
WPRPS01 69  
WPRPS02 69  
WPTVFM 63  
WPVCR/TV 63  
WS14ZP 26  
WS38ZP 26  
WS316ZP 26  
WS516ZPL 26  
WSC516 26

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