

# Tallysman Part Number Ordering Guide

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### **Embedded** Antenna Family of Products

Custom Tuning is Highly Recommended for all Embedded Antennas

Part Number Structure :	33- <mark>aaaa</mark> - <mark>xx</mark> -yyyy	(Please see Pa	ge 8 for Embedded Helicals)
	<mark>aaaa</mark> = Model	xx = Connector	yyyy = Cable Length in mm
00 = SMA Straight Male (plug)	15 = TNC r	nale (plug)	26 = SMB Straight Female
02 = MCX Straight Male (plug)	16 = N-Typ	be Male**	27 = MCX Straight Female
03 = MMCX Straight Male (plug	) 17 = BNC 1	Male**	29 = R/A SSMCX Plug**
04 = SMB Straight Male (plug)	18 = FME*	*	30 = SMB with Overmold**
05 = MCX Right Angle Male (plu	g) 19 = MMC	X Female	35 = MMBX**
06 = MMCX Right Angle male (p	olug)** 20 = SMA	Female	37 = R/A Male SMB**
09 = U.FL (micro-coax cable)	21 = SMA F	Right Angle Female**	38 = TNC Female
10 = SMA Right Angle**	22 = R/A C	QMA**	39 = TNC Right Angle Male**
11 = Reverse Polarity SMA**	23 = SMP	Straight Male (plug)**	40 = SMP R/A Female**
12 = Waterproof SMA**	24 = SMC	Male	
13 = SSMA**	25 = SMC	Straight Female	

If ordering one of our NEW (July 1, 2021) Extended Filtering models, the part number will be 33-aaaaXF-xx-yyyy XF = Extended Filtering (Only avilable with TW3967 & TW3972E)

**Cable Length Tolerances:** <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm **Maximum Cable Lengths:** 5000mm for RG174 , 1450mm for Micro-Coax \*\* **Premiums apply. Please check with your Distributor.** 



### TW2000 Family of Products

Part Number Structure :

33–<mark>2aaa–xx</mark>–yyyy

2aaa = Model

xx = Connector

yyyy = Cable Length in mm (if applicable)

#### Valid Connectors (xx)

#### Without Cable:

07 = SMA Female (jack) bulkhead

#### With Cable:

- 00 = SMA Straight Male (plug) 16 = N-Type Male\*\* 17 = BNC Male\*\* 02 = MCX Straight Male (plug) 18 = FME\*\* 03 = MMCX Straight Male (plug) 04 = SMB Straight Male (plug) 19 = MMCX Female 05 = MCX Right Angle Male (plug) 20 = SMA Female 06 = MMCX Right Angle male (plug) \*\* 21 = SMA Right Angle Female\*\* 10 = SMA Right Angle\*\* 22 = R/A QMA\*\* 11 = Reverse Polarity SMA\*\* 23 = SMP Straight Male (plug)\*\* 12 = Waterproof SMA\*\* 24 = SMC Male 13 = SSMA\*\* 25 = SMC Straight Female 15 = TNC male (plug) 26 = SMB Straight Female
- 27 = MCX Straight Female 29 = R/A SSMCX Plug\*\* 30 = SMB with Overmold\*\* 31 = SMC R/AFemale\*\* 35 = MMBX\*\* 37 = R/A Male SMB\*\* 38 = TNC Female 39 = TNC Right Angle Male\*\* 40 = SMP R/A Female\*\*

NOTE: To order the TW2000 antennas with No Magnet, add "NM" after the Product (eg. 33-2410NM-07).

To add Adhesive Tape to the bottom of the TW2000, add "AT" after the Product (eg. 33-2410AT-07).

If you would like both, No Magnet and Adhesive Tape, add "NMAT" after the Product (eg. 33–2410NMAT-07). To order the TW2000 antennas with rubber gasket add RG after the Product (eg. 33–2410RG-07). Please note that RG is incompatible with AT.

**Cable Length Tolerances:** <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm **Maximum Cable Lengths:** 5000mm



### TW3000 Family of Products

Please Refer to Embedded Antennas for all dual & triple band embedded TW3000 configurations.

Part Number Structure :

33-3aaabb-xx-yy-zzzz

**bb** = Modifier (if applicable)





3aaa = Model

zzzz = Cable Length in mm

Valid Connectors (xx)		
Without Cable:		
01 = TNC Female	14 = N-Type Female**	
With Cable:		
00 = SMA Straight Male (plug)	16 = N-Type Male**	27 = MCX Straight Female
02 = MCX Straight Male (plug)	17 = BNC Male**	29 = R/A SSMCX Plug**
03 = MMCX Straight Male (plug)	18 = FME**	30 = SMB with Overmold**
04 = SMB Straight Male (plug)	19 = MMCX Female	31 = SMC R/AFemale**
05 = MCX Right Angle Male (plug)	20 = SMA Female	35 = MMBX**
06 = MMCX Right Angle male (plug) **	21 = SMA Right Angle Female**	37 = R/A Male SMB**
10 = SMA Right Angle**	22 = R/A QMA**	38 = TNC Female
11 = Reverse Polarity SMA**	23 = SMP Straight Male (plug)**	39 = TNC Right Angle Male**
12 = Waterproof SMA**	24 = SMC Male	40 = SMP R/A Female**
13 = SSMA**	25 = SMC Straight Female	
15 = TNC male (plug)	26 = SMB Straight Female	

Modifiers (bb): ST = Short Thread (ST not valid with 01 or 14 connectors) AJ = Anti-Jamming Configuration\*\* XF = Extended Filtering (Only avilable with TW3872 & TW3972)

**Maximum Cable Length:** 5000mm **Cable Length Tolerances:** <1m: ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm

#### \*\* Premiums apply. Please check with your Distributor.

Anti Jamming Part# 33-aaaaAJ-xx-y-zzzz (Cable Optional)

#### Radome Codes (yy):

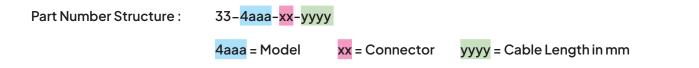
00 = Dark grey Conical 10 = Dark grey low profile 12 = Black low profile 01 = White Conical 11 = White low profile

#### AJ Antenna Radome Code (y):

W = White G=Grey (For TW3742, and TW3752 only)



### TW4000 Family of Products



#### Valid Connectors (xx)

#### Cable required:

- 00 = SMA Straight Male (plug) 02 = MCX Straight Male (plug) 03 = MMCX Straight Male (plug) 04 = SMB Straight Male (plug) 05 = MCX Right Angle Male (plug) 06 = MMCX Right Angle male (plug) \*\* 10 = SMA Right Angle \*\* 11 = Reverse Polarity SMA\*\* 12 = Waterproof SMA\*\* 13 = SSMA\*\* 15 = TNC male (plug)
- 16 = N-Type Male\*\*
  17 = BNC Male\*\*
  18 = FME\*\*
  19 = MMCX Female
  20 = SMA Female
  21 = SMA Right Angle Female\*\*
  22 = R/A QMA\*\*
  23 = SMP Straight Male (plug)\*\*
  24 = SMC Male
  25 = SMC Straight Female
  26 = SMB Straight Female
- 27 = MCX Straight Female 28 = SSMCX Straight Plug\*\* 29 = R/A SSMCX Plug\*\* 30 = SMB with Overmold\*\* 35 = MMBX\*\* 37 = R/A Male SMB\*\* 38 = TNC Female 39 = TNC Right Angle Male\*\* 40 = SMP R/A Female\*\*

NOTE: To order the TW4000 antennas with No Magnet, add "NM" after the Product (eg. 33-4421NM-00-3000). To add Adhesive Tape to the bottom of the TW4000, add "AT" after the Product (eg. 33-4421AT-00=3000). If you want both, No Magnet and Adhesive Tape, add "NMAT" after the Product (eg. 33-4421NMAT-00-3000).

Cable Length Tolerances: <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm Maximum Cable Lengths: 5000mm \*\* Premiums apply. Please check with your Distributor.



## TW5350 / TW5351 / TW5354 (Timing & Infrastructure Positioning)

Part Number Structure :	33– <mark>535w</mark> – <mark>x</mark> –yy–zz	- <mark>PCO</mark>	
	<mark>53ww</mark> = Model	x = Voltage and Interface	yy = Radome (Type and Colour)
	zz = Cable Length	PCO = Factory Default	
w = Model Type:	Radome (	yy):	
0 = Standard 1 = Non-Magnetic 4 = Two RS422 Ports	01 = White 10 = Dark ç	grey Conical e Conical grey low profile low profile	
<ul> <li>x = Voltage and Interface:</li> <li>7 = 5-36V (standard)</li> <li>9 = 5V LV (extended low voltage for 25m applications)</li> </ul>	<b>Cable Len</b> 05 = 5m (s 15 = 15m* 25 = 25m*	tandard)	
PCO = Factory Default			

\*Premium applies

## TW5252 / TW5262 / TW5352 / TW5362 / TW5365 (Automotive Positioning)

Part Number Structure :	33–5 <mark>uvw</mark> – <mark>7</mark> –10–0	5– <mark>PC0</mark>	
	<mark>uvw</mark> = Model	<mark>7</mark> = 5–36v	10 = Dark Gray Low-Profile Radome
	05 = 5m Cable	<mark>PCO</mark> = Factor	ry Default
Model Type:			
Mount (u):	IMU (v):		Signalling (w):
2 = magnetic	5 = no IMI	J	2 = RS232
3 = Fixed	6 = IMU		5 = RS422/485



## TW5(3/7)8(2/4/6) (Dual-Band High Precision)

5a8w = Model yy = Radome (Type and Colour)	xv = Interface and Voltage zz = Cable Length
x = Interface:	Radome (yy):
0 = RS422/485	00 = Dark grey Conical
1 = USB	01 = White Conical
2 = RS232	10 = Dark grey low profile
3 = USB+BT+Wifi	11 = White low profile
4 = CMOS	
	Cable Length (zz):
v = Voltage:	05 = 5m (standard)
7 - 5 - 36V (standard)	15 = 15m*
	25 = 25m*
	<b>x = Interface:</b> 0 = RS422/485 1 = USB 2 = RS232 3 = USB+BT+Wifi 4 = CMOS

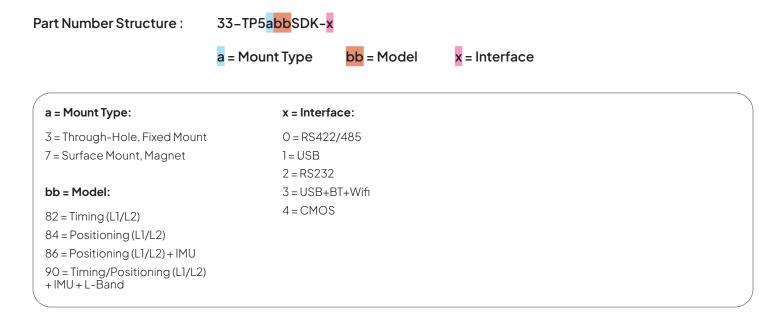
## TW5(3/7)90 (Dual-Band + 1MU + L-Band)

Part Number Structure :	33- <mark>5a90-xv</mark> -yy-zz-PC0	
	<mark>5a90</mark> = Model	xv = Interface and Voltage
	yy = Radome (Type and Colour)	zz = Cable Length

a = Mount Type:	x = Interface:	Radome (yy):	
3 = Through-Hole, Fixed Mount	0 = RS422/485	00 = Dark grey Conical	
7 = Surface Mount, Magnet	1=USB	01 = White Conical	
	2 = RS232	10 = Dark grey low profile	
For CLAS Precise Positioning add "C"	3 = USB+BT+Wifi	11 = White low profile	
to the model number (33–5a90C-xv-yy-zz-PCO)	4 = CMOS	Cable Length (zz):	
	v = Voltage:	05 = 5m (standard)	
	9 = 5V LV	15 = 15m*	
PC0 = Factory Default		25 = 25m*	



## **TruPrecision SDK:**



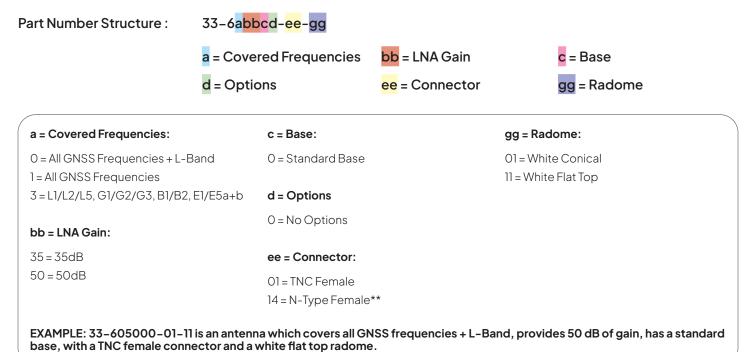
## **Super Small & Light Series**

Part Number Structure :	33–SSL <mark>aaa</mark> XF– <mark>x</mark>
	aaa = Model Number x = Configuration
aaa = Model Number	x = Configuration
	1 = Through Hole
	2 = Mounting Ring
	3 = Adhesive Tape





### **VP6000** Family of Products



\*\*Premium applies

## VC6000 Family of Products

Part Number Structure :

33-VC6<mark>×yy</mark>-14 \*\*

x = Covered Frequencies yy = LNA Gain

\*\* Standard ChokeRing is Red in color, see below for alternate color

(	x = Covered Frequencies:	yy = LNA Gain:	Connector:	
	0 = All GNSS Frequencies + L-Band Correction Services 1 = All GNSS Frequencies	35 = 35dB 50 = 50dB	14 = N-Type Female	
	** Part# for a Grey ChokeRing is 33-VC6×y	-14-G		
	SCIGN Radome Available			
	Short SCIGN Radome = 24-0053-0	Tall SCIGN Radome = 24-0053-1		

## Housed Helical Family of Products

Model:	Part Numbers:			·
HC600	33-HC600 (Passive)			
HC610	33-HC610-28 (28dB LNA)			
HC771	33-HC771-28 (28dB LNA)			
HC843	33-HC843-25 (25dB LNA)			
HC871	33-HC871-28 (28dB LNA)			
HC860	33-HC860-28 (28dB LNA)		33-HC860-35 (35dB LNA)	
HC872	33-HC872-28 (28dB LNA)		33-HC872-35 (35dB LNA)	
HC882	33-HC882-28 (28dB LNA)		33-HC882-35 (35dB LNA)	
HC976	33-HC976-28 (28dB LNA)		33-HC976-35 (35dB LNA)	
HC977	33-HC977-28 (28dBLNA)		33-HC977-35 (35dB LNA)	
HC977XF	33-HC977XF-28 (28dBLNA)		33-HC977XF-35 (35dB LNA)	

~All Housed Helicals include an integrated SMA Male Connector~



## **Embedded Helical** Family of Products

Model:	Part Numbers:		
HC600E1	33-HC600E (Passive)		
HC610E1	33-HC610E-28 (28dB LNA)		
HC771E1	33-HC771E-28 (28dB LNA)		
HC843E <sup>2</sup>	33-HC843E-25 (25dB LNA)		
HC871E1	33-HC871E-28 (28dBLNA)		
HC872E <sup>2</sup>	33-HC872E-28 (28dB LNA)	Ι	33-HC872E-35 (35dB LNA)
HC882E <sup>2</sup>	33-HC882E-28 (28dB LNA)	Ι	33-HC882E-35(35dBLNA)
HC976E <sup>2</sup>	33-HC976E-28 (28dB LNA)	Ι	33–HC976E-35 (35dB LNA)
HC977E <sup>2</sup>	33-HC977E-28 (28dB LNA)		33-HC977E-35 (35dB LNA)

Mounting Ring Available: 120mm Ring - Part#23-0219-0 | 230mm Ring - Part#23-0220-0



### TW7000 Family of Products

Part Number Structure :

33–<mark>7aaa</mark>–xx–yyyy

7aaa = Model 💦 🗙

xx = Connector

yyyy = Cable Length in mm (if applicable)

#### Valid Connectors (xx)

#### Without Cable:

07 = SMA Female (jack) bulkhead

#### With Cable:

- 00 = SMA Straight Male (plug) 16 = N-Type Male\*\* 02 = MCX Straight Male (plug) 17 = BNC Male\*\* 18 = FME\*\* 03 = MMCX Straight Male (plug) 04 = SMB Straight Male (plug) 19 = MMCX Female 05 = MCX Right Angle Male (plug) 20 = SMA Female 06 = MMCX Right Angle male (plug) \*\* 21 = SMA Right Angle Female\*\* 10 = SMA Right Angle\*\* 22 = R/A QMA\*\* 11 = Reverse Polarity SMA\*\* 23 = SMP Straight Male (plug)\*\* 12 = Waterproof SMA\*\* 24 = SMC Male 13 = SSMA\*\* 25 = SMC Straight Female 15 = TNC male (plug) 26 = SMB Straight Female
- 27 = MCX Straight Female 29 = R/A SSMCX Plug\*\* 30 = SMB with Overmold\*\* 31 = SMC R/A Female\*\* 35 = MMBX\*\* 37 = R/A Male SMB\*\* 38 = TNC Female 39 = TNC Right Angle Male\*\* 40 = SMP R/A Female\*\*

NOTE: To order the TW7000 antennas with No Magnet, add "NM" after the Product (eg. 33–7970NM–07). To add Adhesive Tape to the bottom of the TW7000, add "AT" after the Product (eg. 33–7970AT–07).

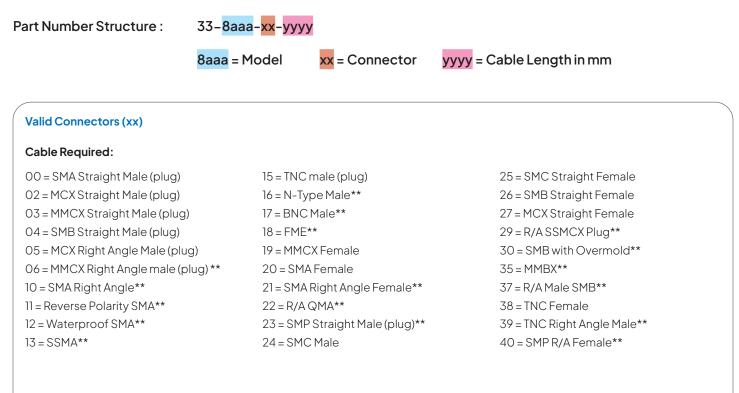
If you would like both, No Magnet and Adhesive Tape, add "NMAT" after the Product (eg. 33–7970NMAT-07). To order the TW7000 antennas with rubber gasket add RG after the Product (eg. 33–7970RG-07). Please note that RG is incompatible with AT.

Cable Length Tolerances: <1m: ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm

Maximum Cable Lengths: 5000mm



### TW8000 Family of Products



NOTE: To order the TW8000 antennas with No Magnet, add "NM" after the Product (eg. 33-8829NM-00-3000). To add Adhesive Tape to the bottom of the TW8000, add "AT" after the Product (eg. 33-8829AT-00-3000).

If you want both, No Magnet and Adhesive Tape, add "NMAT" after the Product (eg. 33-8829NMAT-00-3000).

**Cable Length Tolerances:** <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm **Maximum Cable Lengths:** 5000mm



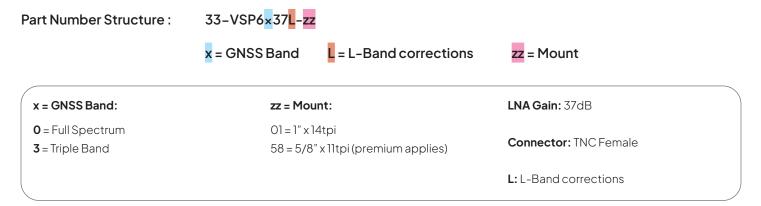
## TWA (AccuAuto™) Family of Products

aaa	= Model	L = L-Band corrections	s required (optional)
	Connector	yyyy = Cable length in	
Valid Connectors (xx)			
Cable Required:			
00 = SMA Straight Male (plug)	15 = TN(	C male (plug)	26 = SMB Straight Female
02 = MCX Straight Male (plug)	16 = N-T	ype Male**	27 = MCX Straight Female
03 = MMCX Straight Male (plug)	17 = BN(	C Male**	29 = R/A SSMCX Plug**
04 = SMB Straight Male (plug)	18 = FMI	E**	30 = SMB with Overmold**
05 = MCX Right Angle Male (plug)	19 = MM	CX Female	31 = SMC R/A Female**
06 = MMCX Right Angle male (plug) **	20 = SM	1A Female	35 = MMBX**
10 = SMA Right Angle**	22 = R/A	AQMA**	37 = R/A Male SMB**
11 = Reverse Polarity SMA**	23 = SM	IP Straight Male (plug)**	38 = TNC Female
12 = Waterproof SMA**	24 = SM	IC Male	40 = SMP R/A Female**
13 = SSMA**	25 = SM	IC Straight Female	

**Cable Length Tolerances:** <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm **Maximum Cable Lengths:** 5000mm



## VeroStar Pole Mount Family of Products



## VeroStar Surface Mount Family of Products

Part Number Structure : 33–VSS6×37L

<mark>x</mark> = GNSS Band

x = GNSS Band:	Mount: 4 screws	LNA Gain: 37dB
<b>0</b> = Full Spectrum <b>3</b> = Triple Band		Connector: TNC Female
		L: L-Band corrections

## VeroStar Marine Family of Products

Part Number Structure :	33–VSP6 <mark>×</mark> 37L–MAR– <mark>zz</mark>		
	x = GNSS Band zz = Mount		
x = GNSS Band:	zz = Mount:	LNA Gain: 37dB	
<b>0</b> = Full Spectrum <b>3</b> = Triple Band	01 = 1" x 14tpi 58 = 5/8" x 11tpi (premium applies)	Connector: TNC Female	
		L: L-Band corrections	



## VeroStar Embedded-Standard Family of Products

Part Number Structure :	33–VSE6 <mark>×</mark> 28L		
	<b>x</b> = GNSS Band <b>L</b> = L-Band	corrections	
x = GNSS Band:	Mount: 4 screws	LNA Gain: 28dB	
<b>0</b> = Full Spectrum <b>3</b> = Triple Band		Connector: MCX Straight Female	
		L: L-Band corrections	

### Contact Tallysman before ordering

## VeroStar Embedded-Mini Family of Products

Part Number Structure :	33-VSM6 <mark>×</mark> 28 <mark>L-ppp</mark>		
	<mark>x</mark> = GNSS Band	L = L-Band corrections	p = PCB Diameter
x = GNSS Band:	Mount:	8 screws	LNA Gain: 28dB
<b>0</b> = Full Spectrum <b>3</b> = Triple Band			Connector: MCX Straight Female
p = PCB Diameter:			L: L-Band corrections
<b>090</b> = 090mm PCB <b>106</b> = 106mm PCB			

### Contact Tallysman before ordering





## **AJ Series Antennas**

Part Number Structure : 33–AJ977XF-xx

x = GNSS Band

#### Valid Connectors (xx)

01 = TNC female connector

14 = N-type female connector

### **Cable Assembly**

Part Number Structure :

27–<mark>xx</mark>-<mark>zzzz</mark>-уууу

x = Connector type (up to 2)

zzzz = Cable length in mm

yyyy = Cable type (eg RG174, LMR100, RG58, RG316)

#### Valid Connectors (xx)

00 = SMA Straight Male (plug)	15 = TNC male (plug)	25 = SMC Straight Female
02 = MCX Straight Male (plug)	16 = N-Type Male**	26 = SMB Straight Female
03 = MMCX Straight Male (plug)	17 = BNC Male**	27 = MCX Straight Female
04 = SMB Straight Male (plug)	18 = FME**	29 = R/A SSMCX Plug**
05 = MCX Right Angle Male (plug)	19 = MMCX Female	30 = SMB with Overmold**
06 = MMCX Right Angle male (plug) **	20 = SMA Female	35 = MMBX**
10 = SMA Right Angle**	21 = SMA Right Angle Female	37 = R/A Male SMB**
11 = Reverse Polarity SMA**	22 = R/A QMA**	38 = TNC Female
12 = Waterproof SMA**	23 = SMP Straight Male (plug)**	39 = TNC Right Angle Male
13 = SSMA**	24 = SMC Male	40 = SMP R/A Female**



### Accessories (TW3000)

23-0067-0	TW3000 Series – Ground Plane – Aluminum
23-0040-0	TW3000 Series – L-Bracket – Aluminum
23-0040-1	TW3000 Series – L-Bracket – Stainless Steel
23-0040-2	TW3000 Series – L-Bracket – Aluminum Anti-Jamming
23-0092-0	TW3000 Series – Mast Mount
23-0065-0	TW3000 Series - Pipe Mount Adapter - Screw Compression
23-0110-0	TW3000 Series – Pipe Mount Adapter – Threaded

#### **In-Line Amplifiers**

- **32-0120-xx** GPSL1, 25dB
- 32-0125-xx 1.2 to 1.8 Ghz, 27dB
- 32-0125B-xx 1 to 2 Ghz, 27dB
- 32-0127-xx Low Current/Low Voltage 1559 MHz to 1610 MHz, 25 dB
- **32–0141–xx** 1.15 to 1.75 Ghz, 40dB, mid power

#### xx = connector type

- ${\tt OO-SMA}\ female\ on\ input\ (antenna\ connection)\ /\ SMA\ female\ on\ output\ (receiver\ connection)\$
- ${\tt O1-TNC}\ female\ on\ input\ (antenna\ connection)\ /\ TNC\ female\ on\ output\ (receiver\ connection)\$
- 02 SMA female on input (antenna connection) / TNC female on output (receiver connection)
- 03 TNC female on input (antenna connection) / SMA female on output (receiver connection)
- 14 N-type female connectors
- \*premiums apply

#### **Bias Tees – Signal Splitters**

- **32–0150–xx** 1 to 2 signal splitter with DC pass-through (port 2)
- **32-0151-xx** 1 to 2 signal splitter with DC blocking
- 32-0154-xx Bias Tee, 3.3 VDC out
- **32–0155–xx** Bias Tee, 5 VDC out

#### xx = connector type

- 00 SMA female (jack) for internal use only
- 01 TNC female (jack) for internal use only
- 02 TNC female (jack), IP67 rating, for external use

#### \*premiums apply



#### **Bias Tees – Signal Splitters**

**32–0162–xx** - 1 to 2 smart signal splitter (TNC or N-Type connectors only)

32-0162A-xx - 1 to 2 smart signal splitter (FAKRA connectors only)

32-0163-xx - 1 to 2 smart signal splitter with 10dB amplification(TNC or N-Type connectors only)

**32-0164-xx** - 1 to 4 smart signal splitter (TNC or N-Type connectors only)

**32–0165–xx** - 1 to 4 smart signal splitter with 10dB amplification (TNC or N-Type connectors only)

#### xx = connector type

01 - TNC female (jack) for internal use only

14 - N-type female

34 - FAKRA

