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REVISIONS

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REV.	DESCRIPTION	DATE	DWN	APVD
F01	ECO-21-00688, PRODUCTION RELEASE	15NOV21	S.J.	S.J.
F02	ECO-22-00049, SPECIFICATION CHART UPDATES	10MAR22	S.J.	J.G.
F03	ECO-22-00055, CHANGE DIMENSIONS TO REFERENCE	17MAR22	K.E.	J.Q.
D	ECO-22-00135, UPDATED TO TE LOGO, TE FORMAT	26SEP22	S.J.	J.Q.

Part No.	Housing Color
FTRA6971M5PW-001	White
FTRA6971M5PB-001	Black

($\phi 45$)

SPECIFICATION													
Frequency Band, MHz	698-824	824-894	880-960	1427-1695	1690-1880	1850-1990	1910-2200	2300-2700	3300-4000	4000-4200	4400-6000	6000-6500	6500-7125
Peak Gain, dBi (Average)*	3.9	3.7	4.0	4.6	5.1	5.5	5.5	4.6	5.5	5.6	5.5	5.9	7.0
Peak Gain, dBi*	4.1	4.1	4.2	5.3	5.6	5.9	5.9	5.6	6.1	6.2	6.3	6.3	8.2
VSWR (Average)*	<1.8	<1.9	<2.1	<1.9	<1.8	<1.7	<1.6	<1.3	<1.4	<1.7	<1.9	<2.4	<2.5
VSWR (Max)*	<2.3	<2.3	<2.3	<3.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.5	<3.0	<3.0
Max Power - @ Ambient 20 °C, Watts	100			40				20		NA			
Max Gain (*) $\pm 30^\circ$ above Horizon, dBi	6.0 @ 5150-5250 MHz (UNII I)												
Polarization	Vertical												
Nominal Impedance, Ω	50												
Weight - kg (lbs)	0.14 (0.3)												
Connector Type	N-female												
Mounting Type	Direct Mount												
Ingress Protection	IP67												
UV Rated	ASTM G155												
Operating Temperature °C (°F)	-40 to +85 (-40 to 185)												
Storage Temperature °C (°F)	-40 to +85 (-40 to 185)												
Humidity, % (non-Condensing)	95%												
Flammability Rating	UL94 V0												
Material Substance Compliance	RoHS												
Wind Velocity (MPH) - Operational	100												
Wind Velocity (MPH) - Survival	136												

(*) Measured on 2ft x 2ft ground plane.
Antenna specification is subjected to change according to the ground plane size.

(84)

(22)

5/8"-24 UNEF-2A THREAD

TORQUE TO 4-4.5 N-m

ENSURE BOTH O-RINGS ARE IN PLACE AT ASSEMBLY

(6.65 FLAT)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S. JOHNSON 12MAY21			FTRA6971M5Px OUTLINE	
DIMENSIONS: mm		CHK J. QUALEY 15NOV21				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD J. GILLETTE 15NOV21	NAME		RESTRICTED TO	
0 PLC ± 0.5		PRODUCT SPEC	FTRA6971M5Px		-	
1 PLC ± 0.25		APPLICATION SPEC	SIZE		CAGE CODE	
2 PLC ± 0.13		—	A3		00779	
3 PLC \pm		—	DRAWING NO		FTRA6971M5Px	
4 PLC \pm		—	SCALE		SHEET	
ANGLES $\pm 30^\circ$		—	1:1		1 OF 1	
MATERIAL		WEIGHT	CUSTOMER DRAWING		REV	
N/A		g	D		D	

1470-19 (3/13)