



# ShareLite™ Twin Triplexer 555-748 MHz / 1850-1990 MHz / 1695-1780 & 2110-2200 MHz, DC Sensing-AISG Pass

The FTA4PK5030-S triplexer is designed to enable feeder sharing between systems in the 600,700, 850 MHz and the AWS / PCS bands. Additionally, the triplexer is designed to cover all the new AWS-3 spectrum. RFS' innovative cavity filter design provides a very low insertion loss of 0.2 dB while keeping the product extremely compact and lightweight. The use of highly selective filters guarantees a high isolation level of 50 dB between ports, to ensure an interference-free environment for any technology deployed. The filter design also incorporates lightning protection for additional reliability. Designed to withstand the most severe outdoor environments, the triplexer features an IP67 class protection with a vented enclosure to avoid any possible effects of pressure instability, thus providing a long lasting, extremely reliable solution to any network.



**FEATURES / BENEFITS**

- ➔ Wideband design including the new AWS-3 – ready for a wide range of co-location applications
- ➔ Low insertion loss – maximizes performance
- ➔ High level of rejection between bands – protects against interferences
- ➔ Compact and low weight – enables easy handling and reduces tower loading
- ➔ In-line connector placement – flexible installation positioning
- ➔ Long-neck connectors – streamlines connection and waterproofing
- ➔ IP67 Class protection – exceptional reliability and environmental protection
- ➔ Equipped with 2 \* breathable vents – provides equalization of pressure while preventing water ingress
- ➔ Rugged design – suitable for outdoors
- ➔ DC sensing – simple configuration management and site evolution

**Technical Features**

**GENERAL SPECIFICATIONS**

Product Type		Triplexer/Cross Band Combiner
Application		LTE700, AWS-1, AWS-3, AWS4, PCS
Configuration		ShareLite Twin Wideband Triplexer, full DC pass with mounting hardware

**ELECTRICAL SPECIFICATIONS**

Frequency Range 1	MHz	555 - 748
Frequency Range 2	MHz	1850 - 1990
Frequency Range 3	MHz	1695 - 1780 & 2110 - 2200
Return Loss All Ports	dB	18 Min
Power Handling Continuous, Max	W	200 (AWS/PCS), 300 (700/850)
Impedance	Ω	50.0
Insertion Loss, Path 1	dB	0.1
Insertion Loss, Path 2	dB	0.15 typ. / 0.2 max.
Insertion Loss, Path 3	dB	0.15 typ. / 0.25 max.
Group Delay Variation	ns	< 10 Path 2 & 3 < 2 Path 1
Group Delay, Path 1	ns	3 Max.
Group Delay, Path 2	ns	18 Max.
Group Delay, Path 3	ns	12 Max.
Rejection between Bands, Min	dB	50
IMP Level at the COM Port	dBm (dBc)	-112 (-155) @2x43 max.
DC Pass in Path 1		Auto Sense
DC Pass in Path 2		Auto Sense
DC Pass in Path 3		Auto Sense

**MECHANICAL SPECIFICATIONS**

Mounting		Wall Mounting: With 4 screws (maximum 6mm diameter) Pole Mounting: With included clamp set 50-100mm (1.9-3.9)
RF Connectors		In-line long-neck 7-16-Female
Weight	kg (lb)	6.3 (14)
Dimensions, H x W x D	mm (in)	238 x 190 x 125 (9.4 x 7.5 x 4.9)

**TESTING AND ENVIRONMENTAL**

MTBF	hrs	>1,000,000 (Telcordia SR-332, Issue 3, 2011)
Temperature Range	°C (°F)	-40 to 65 (-40 to 149)
Environmental		ETSI 300-019-2-4 Class 4.1E
Ingress Protection		IP 67
Lightning Protection		IEC61000-4-5 Level 4 / 20kA, 8/20us

**External Document Links**

Installation Instructions

**Notes**