ST60 SMT HORN ANTENNA - V POLARIZATION - GOLD PLATING



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ELECTRICAL CHARACTERISTICS						MECHANICAL CHARACTERISTICS				
Frequency Band 57 ~ 66 GHz					Weight			0.12	g ±15%	
Nominal Impedance			50	Ω	Overall Di	Overall Dimensions		8.25 × 7.4 × 3.4	mm	
Return Loss ⁽¹⁾			< -10	dB (Tvp.)	Mounting	Туре		Edge-Card SMT		
Typical Far-Field Directivity > 8 dBi						ENVIR	ONMENTAL	CHARACTERISTICS		
Radiation Pattern			ectional	(Horn)	Extreme S	Storage Ten	nperature ⁽²⁾	-20 / +55	°C	
Polarization			Vertical	~ /	Recomme	ended Stora	de (2)	25 ± 15	°C	
Relative Cross-Polarization Level			> 20 dB		(12 Mor	(12 Months Shelf Life) ⁽²⁾		30 ~ 60	%RH	
ESD Protection			Ground		Reflow Te	Reflow Temperature		260	°C Max.	
(1): Measured on Reference Board (See Application			ication N	ote	Operating	Operating Temperature Range		-40 / +125	°C	
"201910575-10 B_AN.pdf").				ROHS & F	ROHS & REACH status		See radiall.com/rohs			
(2): Tape & Reel	Packaging Co	nditions								
				FACKAC	SING SUFFIX				_	
500			P/N Suffix Packaging Typ 20 Large Reel			OD 15''	ID 4"	Order Quantity 2000	-	
R380846102		01	Small Reel		el Se stra stin su Auro	7"	2.4 "	100		
PACAGING REEL										
	_ØOD					ØID	(~21.5)			

CARRIER TAPE



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PART NUMBER R380846102

SOLDER PROCEDURE

- 1. Deposit solder paste 'SnAg4Cu0.5' (*T4 or T5*) on mounting zone by screen printing application. We recommend a low residue flux. We advise a thickness of 80 to 100 μm (*3,150 to 3,940 mils*). Verify that the edges of the zone are clean.
- 2. Placement of the receptacle on the mounting zone with an automatic machine of 'pick and place' type. A video camera is recommended for positioning of the component. Adhesive agents must not be used on the receptacle.
- 3. This process of soldering has been tested with convection oven .Below please find, the typical profile to use.

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- 4. The cleaning of printed circuit boards is possible, but not mandatory.
- 5. Verification of solder joints and position of the component by visual inspection (*Component centered on pads, with 100µm max. gap between its shoulder & PCB edge*).

TEMPERATURE PROFILE



Parameter	Value	Unit
Temperature rising Area	1 - 4	°C/sec
Max Peak Temperature	260	°C
Max dwell time @260°C	10	sec
Min dwell time @235°C	20	sec
Max dwell time @235°C	60	sec
Temperature drop in	-1 to - 4	°C/sec
cooling Area		
Max dwell time above 100°C	420	sec