

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C ^{(1) (2)}	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C ⁽³⁾	
	OPERATING HUMIDITY RANGE	RH 90 % MAX ^{(2) (4)}	STORAGE HUMIDITY RANGE	RH 70 % MAX ^{(3) (4) (6)}	
	VOLTAGE	300 V DC/AC	CURRENT	60A (TEMPERATURE RISE 30°C MAX)	
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	
QT		AT			
CONSTRUCTION					
GENERAL EXAMINATION		VISUAL AND WITH MEASURING INSTRUMENT		ACCORDING TO DRAWING	
MARKING		CONFIRMED VISUALLY			
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE [EIA-364-23]		100 mA AND 20 mV OPEN CIRCUIT MAX.		2 mΩ MAX. ⁽⁵⁾ MATED WITH IT-PM-2S-DIR IT-PD-2S-DIR	
INSULATION RESISTANCE [EIA-364-21]		500 V DC		1000 MΩ MIN.	
VOLTAGE PROOF [EIA-364-20]		1000 V AC FOR 1 MINUTE		NO FLASHOVER OR BREAKDOWN.	
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]		MEASURED WITH RESPECT TO APPLICABLE CONNECTORS		INSERTION FORCE: 50 N MAX. WITHDRAWAL FORCE: 3 N MIN.	
MECHANICAL OPERATION [EIA-364-09]		100 TIMES INSERTION AND EXTRACTION		① CONTACT RESISTANCE: 2 mΩ MAX. ⁽⁵⁾ ② NO DAMAGE, CRACKS, OR LOOSE PARTS	
RANDOM VIBRATION [EIA-364-28]		FREQUENCY : 50 TO 2000 Hz POWER SPECTRAL DENSITY : 0.1 g ² /Hz FOR 90 MINUTES IN THREE DIRECTIONS * Spacers were used to maintain the distance between the PCB's during testing.		① NO ELECTRICAL DISCONTINUITY OF 1 μs OR MORE ② NO DAMAGE, CRACKS, OR LOOSE PARTS	
SHOCK [EIA-364-27]		490 m/s ² , DURATION OF PULSE : 11 ms 18 TIMES TOTAL , 3 EACH DIRECTION , 3 AXIS * Spacers were used to maintain the distance between the PCB's during testing.			
ENVIRONMENTAL CHARACTERISTICS					
THERMAL SHOCK [EIA-364-32]		TEMPERATURE: -55 → 20 ~ 35 → 85 → 20 ~ 35 °C TIME: 30 → 5 MAX → 30 → 5 MAX minutes 10 CYCLES		① CONTACT RESISTANCE : 2 mΩ MAX. ⁽⁵⁾ ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACKS, OR LOOSE PARTS	
CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31]		@ 25 °C, 80% RH: 60 MIN DWELL TIME 30 MIN RAMP TIME @ 65 °C, 50% RH: 60 MIN DWELL TIME 24 CYCLES			
DRY HEAT [EIA-364-17]		EXPOSED AT 105 °C, 120 hr		① CONTACT RESISTANCE : 2 mΩ MAX. ⁽⁵⁾ ② NO DAMAGE, CRACKS, OR LOOSE PARTS	
MIXED FLOWING GAS [EIA-364-65]		EXPOSED AT 30 °C, 70% Cl ₂ : 10 ppb, NO ₂ : 200 ppb, H ₂ S : 10 ppb, SO ₂ : 100 ppb UNMATED 7 DAYS, MATED 7 DAYS		CONTACT RESISTANCE : 2 mΩ MAX. ⁽⁵⁾	